

Db	500	CGTCGCTGCCCCGCTGCCCCGGGGCCCCCGCCCCCGCCGACACCAATGCCGGTCAACGG	559
QY	549	CTGGGGAGACGTCCAGAGAGGCAGATCTTGGCTCTCCCTGGGTCTACAGGAATGGA	608
Db	560	CTGGGGCAGCCCTCCCGCCCGAGAGTGCCTCCAGAGTGCAGCCCTCAAGAGAAATAG	619
QY	609	GCTAAGGCTGCTGGGGAGAGGCCACCTGTAATGTCTACAGGCAGCCGCGTCCCTTCAA	668
Db	620	GGTGGCCGCTGCTGAGACTGCACGACCTGCGCAGCGGCTCTACAGTGGGCGCGGACGTGCC	679
QY	669	CCTCACTCTCCAGATAT--TCCAGAGAGTGTGTGTGTGTGTACTTACAGAGGCGCGAG	725
Db	680	CCAGGCTAGCCCAATTGTGTCTGCTGGAGAGTGTGTGTGCGGGCTAACCCCAAGGCCACAA	739
QY	726	GGACACTGGCCAGGGGTGACTGTGGGGGGGGCCCGTGTGTGAGAGAGGGCGCGCTGTT	785
Db	740	GGACCCCTGGCCAGGGTGAATCTGGGGGACCTCTGACCTGTGCACTTGGGAGCTGGGT	799
QY	786	CCAGGCAAGAAATCACACGTTTGGGTTTGGCTGTGACGAGAGAAACCGCCCTGGAATTTT	845
Db	800	CCTGGTGGGCGGTGAGGCTGGGGCAAGGGTTGTGCTTGCCCAACCGTTCAGGGGTCTA	859
QY	846	CACCTGCTGTGCTTACTTATGAGGCATGATATACGGAGCAGGTCA	889
Db	860	CACCAGTGTGGCCACATATATGCCCTTGAGTTACAGGTGCCGTCA	903

```

RESULT 2
US-09-387-375-8
Sequence 8, Application US/09387375
Patent No. 6485957
GENERAL INFORMATION:
APPLICANT: Darrow, Andrew
APPLICANT: Andrade-Gordon, Patricia
APPLICANT: Qi, Jenson
TITLE OF INVENTION: DNA Encoding the Human Serine
FILE REFERENCE: CRT-1031
CURRENT APPLICATION NUMBER: US/09/387,375
CURRENT FILING DATE: 1999-08-31
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 1130
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Nucleic acid
US-09-387-375-8
OTHER INFORMATION: sequence of EOs zymogen fusion gene

```

Query Match	19.7%;	Score 216.8;	DB 4;	Length 1130;
Best Local Similarity	58.0%;	Pred. No. 4.1e-40;		
Matches 427;	Conservative	0;	Mismatches 297;	Indels 12;
				Gaps 2;

QY	157	ATCGGGGGGGCTCAACGCGAGCCGGGACCTGGCTTGGCAATGAGCCTGACCAT	216
Db	166	ATCGTTGGGGGTATGCTCTTAGAGGACGAGAGTGCCGCTGGCAGGCGAGCATCCAGCAT	225
QY	217	GGAGGTGGCCACATCTGCGGGGGGCTCCCTCATGCGCCCCCTCCTGGGTCCCTTCGCTGT	276
Db	226	CCTGGGGGACACGTGTGCGGGGGGTGCTCATGCGCCCCCAGTGAGTGTGACAGGGGG	285
QY	277	CACCTTTTCATGACCGAATGGAGCGTTTGAGCCCGGGCGGCGAGTGTGCGTATCTGTGGG	336
Db	286	CACGTCTTCCCAAGG-----GGGCACTGCACGTGAATACCGCGTGGCCCTGGGG	336
QY	337	GTGCACCTCCCAAGACGGGCCCCCTGAGCGCGGGGGACACCCCGGCAAGTGGCCCGCAATCG	396
Db	337	GCGCTGCGCTCTGGGGTCCACCTCGCCCCGACGCTCTCGATGCCGTGTGACAGGGTGTG	396
QY	397	GTGCCGCGCAACTACGACCAATGAGCTGGGCGCGCGAATTGAGCCCTGTCTGGCCCTGAC	456

Db 397 CTGCCCCCGAGCTACTCCGAGGAGCGGGGCCCGCGGACCTTGGACCTGGACGTGGCGT 456

Qy 457 TCACCCGCGACCTGGAGCCCGCGGTGGCTGTCTGTGCTTACCCTGACCTCAACCGC 516

Db 457 CGCCCGGTGCCCCGTGAGGCTTCGCGTCCAACTCGTCTGCTGCCGATGCGCCGCGCGCG 516

Qy 517 TTCTGTGACAGGACACCGCTGTCTGGGACACCGGCTGGGGAGAGAGTCCAGGAGCAATCT 576

Db 517 CCGCGCCCGGACACCAATGCCCCGTACCGGCTGGGGGAGGCTCTCGCCCAAGAGTCCC 576

Qy 577 CTGCTCTCCCTGTGGTGTCTACAGAGAAATGAGCTTAAGGCTGTGGGACAGGCCACTGT 636

Db 577 CTCCCAAGGTGGCCACCGCTACCAAGAGTAAGGATCCGCTGTCTGSACTCGGCACTGC 636

Qy 637 CAATGTCTTACAGCCAGCCCGGATCCCTTCAACTCTCCAAATAT--TGCAGGG 693

Db 637 GACGGCTCTTACCACTGTGGGCGCGGACGTGCCCCGAGCTGAGCGCATTTGTGCTGCTGGG 696

Qy 694 ATGCTGTGTGTGTGATACCCAGAGGGCCGACAGGACACCTGTGCAGGGTAACTTGGGGGG 753

Db 697 AGTCTGTGTGCGGTATACCCCAAGGGCCACAAGAGACGCTGCAGAGGTAACTTGGGGGA 756

Qy 754 CCCCCTGTGTGAGAGAAAGCGGCGCGTGTGTTCCAGAGCAGAGATCAACAGCTTTGGGTTT 813

Db 757 CCTGTGACCTGTCTGCACTGTGTGGAGTGTGGGTCTGTGTGGGGTGGTAGCTGGGGCAAG 816

Qy 814 GGGCTGTGACGAGAAACCGCCCTTGGAGTTTCACTGTGTGGCTAATTATGAGGCAAGG 873

Db 817 GGGTGTGCTTCGCCCAACCGTTCAGAGGGTCTTACACAGATGTGGCACAATATAGCCCTTG 876

Qy 874 ATAGGGGAGCAGGTGA 889

Db 877 ATTAGGCTCGCGTCA 892

```

RESULT 3
US-09-386-642-8
Sequence 8, Application US/09386642
Patent No. 6420157
GENERAL INFORMATION:
APPLICANT: Darrow, Andrew
APPLICANT: Qi, Jensen
APPLICANT: Andrade-Gordon, Patricia
TITLE OF INVENTION: Zymogen Activation System
FILE REFERENCE: ORT-1028
CURRENT APPLICATION NUMBER: US/09/386,642
CURRENT FILING DATE: 1999-08-31
NUMBER OF SEQ. ID NOS: 60
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 1142
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Fusion gene
OTHER INFORMATION: with homo sapien serine protease catalytic domain
US-09-386-642-8

```

Query Match	16.6%;	Score 183.2;	DB 4;	Length 1142;
Best Local Similarity	53.5%;	Pred. No. 1.6e-32;		
Matches 411; Conservative	0;	Mismatches 348;	Indels 9;	Gaps 1;

QY 157 ATCCGCGGGGCTCAAAAGCCGACGCCGAGCACTGCGCTTGCAAGTAGCCCTGCACCAT 216

Db 139 ATCGTTGGGGGCTATGCTCTTAGAGGCCGGTCAGTGACCGCTCGCAGSTCAGATCACTTAT 198

QY 217 GGAAGTGGCCCACTATCGCGGGGCTCCCTCATATCGCCCCCTCCGAGTCCCTCTCCGCTGCT 276

Db 199 GAAGCGCTCAATGCTGTGTGGGCTCTCTCGTGTGAGCAATGGTGTCTGTCAAGTGTCT 258

QY 277 CACTGTTTCATGACGAATGGACGTTGAGCCCGCGCCGAGTGTGCGTACTCTGGGSC 336

Db 259 CACTGCTTCCCGAGGA-----GACCAACAAGGAAGCTTAGAGTCAAGCTGAGG 309
Qy 337 GTGCACTCCAGAGAGGAGCCCTTGAGACGAGCGGCAACCCGCGAGTGGCCCATCTG 396
Db 310 GCCCAACAGCTAGACTCTCCACTCCGAGAGCGCAAGTCAAGACCTTGAAGACATCATC 369
Qy 397 GTGCGGCGCACTACAGCCCAAGTGAAGCTGGGCGCGAAGCTGGCCCTGTGCGCTGACC 456
Db 370 CCCCAAGCCAGCTACCTCCAGAGAGGAGCTCCAGAGCGACATGTCACTCCTTCAACTCAGC 429
Qy 457 TCACCGCGCAAGCTGGGCGCGCGCTGTGAGCTGTGCTGCTGCGCCCGGCTTCAACAGCC 516
Db 430 AGACCCATCACCCTTCTCCCGCTACACATCCGCGCCATCTGCTCCGCAAGCAAGCCCTCC 489
Qy 517 TTGCTGACAGGACCGCTGCTGAGGCAACCGCTGGGAGAGAGTCCAGAGAGCAGATCCT 576
Db 490 TTCCCGCAAGGCTCTCAGCTGCACTGTCACTGGCTGGGCTCATGTGGCCCTCACTGAGC 549
Qy 577 CTGCTCTCCCTGGGCTCTACAGGAAGTGAAGTAAAGCTGAGGCGAGGCAAGCTGT 636
Db 550 CTCTGACGCGCCAGCCACTGAGCACTGAGAGTGGCTTGATCAGTGTGAGACGTGT 609
Qy 637 CAATGCTCTACAGCCAGCCGCTGCTTCAACCTCACTTCCAGATATTCAGAGAGATG 696
Db 610 AACTGCTGTACAACTAGAGCGCCAGCTGAGAGCGCACTTGTCCAAAGAGACATG 669
Qy 697 CTGCTGCTGCTACCCAGAGGCGCGAGGCAACCTGCGAGGCTGCTGGGAGGCGCC 756
Db 670 GTGTGTGCTGCTAGTGTGAGAGGCGGCAAGAGCGCTGCGAGGCTGCTGGGAGGCGCA 729
Qy 757 CTGCTGTGTGAGAGAGCGCGCTGCTGCTTCAAGGAGAGATCACAGCTTGTGGGTTTGGC 816
Db 730 CTCTCTGCTCCCTGTGAGAGGCTCTGCTGCTGACCTGACGCGCATGTGTGAGCTGGGAGATGCC 789
Qy 817 TGTGAGAGGAGAAACCGCCCTGAGGCTTTCATGCTGTGTGCTACTAGAGGAGATGATA 876
Db 790 TGTGAGGCGCCCAAGAGCGCTGTGTGTGTACCTGTGCGCTCAGTGTGCTTCCCTGATTC 849
Qy 877 CGGAGAGAGTGAAGGCTTTCAGAGCTGAGGCTGAGCTTCCACCCAG 924
Db 850 CAAGCAAGTGAAGAACTCCAGCTGTGTGTGTGCGCCCAAGCCAG 897

RESULT 4
US-09-386-642-7
; Sequence 7, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
; APPLICANT: Darrow, Andrew
; APPLICANT: Qi, Jenson
; APPLICANT: Andrade-Gordon, Patricia
; TITLE OF INVENTION: Zymogen Activation System
; FILE REFERENCE: ORT-1028
; CURRENT APPLICATION NUMBER: US/09/386,642
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 1169
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Description of Artificial Sequence: Fusion gene
; OTHER INFORMATION: with homo sapien serine protease catalytic domain
US-09-386-642-7

Query Match 16.6%; Score 183.2; DB 4; Length 1169;
Best Local Similarity 53.5%; Pred. No. 1.6e-32;
Matches 411; Conservative 0; Mismatches 348; Indels 9; Gaps 1;

Qy 157 ATCGTGGGGGCTAAACGCGAGCCGCGACCTGGCCTTGGCAAGTGAAGCTGACCAT 216
Db 166 ATCGTTGGGGGCTATGCTCTTGAAGGCGGCTGAGTGGCCCTTGGCAGGTGACATCACTAT 225

Qy 217 GAAGGTGGCCACATCTGCGGGGAGCTCCCTCATGCGCCCTCTGGGCTCTTCCGCTGCT 276
Db 226 GAAGGCGTCCATGTGTGTGTGTGTGTCTCTGCTGTGTGAGAGTGTGTGTGTGTGTGTGT 285
Qy 277 CACTGTTTCAATGACGAATGGACGTTGAGGCTCCGCGCGCTGAGTGTGTGTGTGTGTGTGT 336
Db 286 CACTGCTTCCCAAGCA-----GCACCAAGAGAGCTTAGAGTCAAGCTGAGG 336
Qy 337 GTGCACTCCAGAGAGGAGCCCTTGAACGAGCGCGCAACCCCGAGAGTGGCCGCTTGTG 396
Db 337 GCCCAACAGCTAGACTCTTACTTCCAGAGAGCGCAAGGTCAACACCTTAAGAGACATCATC 396
Qy 397 GTGCGGCGCACTACAGCCCAAGTGAAGTGGGCGCGCAAGCTGAGCCCTGCTGAGCTGAGC 456
Db 397 CCCCAAGCCAGCTACTTCCAGAGAGGCTCCAGAGCGCAATTTGCACTCTTCAACTCAGC 456
Qy 457 TCACCGCGCAAGCTGGGCGCGCGCTGTGAGCTGTGCTGCTGCTCCGCGCTTCAACAGCGC 516
Db 457 AGACCCATCACCCTTCTCCCGCTACATCCGCGCCATCTGCTCCCTGAGCCAAAGCTTCC 516
Qy 517 TTGCTGACAGGCAACCGCTGCTGAGGCAACCGCTGGGAGAGAGTCCAGAGAGCAGATCCT 576
Db 517 TTCCCGAAGGCTTCACTGCACTGTCACTGCTGAGGCTGAGGCTGAGGCTTCACTGAGC 576
Qy 577 CTGCTCTCCCTGGGCTCTACAGGAAGTGAAGCTTAAAGCTGAGGCGAGGCAAGCTGT 636
Db 577 CTCTGAGAGCCCAAGCCACTGAGCACTGAGAGTGGCTTGATCAGTGTGAGACGTGT 636
Qy 637 CAATGCTCTACAGCCAGCCGCTGCTTCAACCTCACTTCCAGATATTCAGAGAGATG 696
Db 637 AACTGCTGTACAACTAGAGCGCCAGCTGAGAGCGCACTTGTCCAAAGAGACATG 696
Qy 697 CTGCTGCTGCTACCCAGAGGCGCGAGGCAACCTGCGAGGCTGCTGGGAGGCGCC 756
Db 697 GTGTGTGCTGCTAGTGTGAGAGGCGGCAAGAGCGCTGCGAGGCTGCTGGGAGGCGCA 756
Qy 757 CTGCTGTGTGAGAGAGCGCGCTGCTGCTTCAAGGAGAGATCACAGCTTGTGGGTTTGGC 816
Db 757 CTCTCTGCTCCCTGTGAGAGGCTCTGCTGCTGACCTGACGCGCATGTGTGAGCTGGGAGATGCC 816
Qy 817 TGTGAGAGGAGAAACCGCCCTGAGGCTTTCATGCTGTGTGCTACTAGAGGAGATGATA 876
Db 817 TGTGAGGCGCCCAAGAGCGCTGTGTGTGTACCTGTGAGCTCAGCTAGTGTGCTTCCCTGATTC 876
Qy 877 CGGAGAGAGTGAAGGCTTTCAGAGCTGAGGCTGAGCTTCCACCCAG 924
Db 877 CAAGCAAGTGAAGAACTCCAGCTGTGTGTGTGCGCCCAAGCCAG 924

RESULT 5
US-09-386-653A-1
; Sequence 1, Application US/09386653A
; Patent No. 6458564
; GENERAL INFORMATION:
; APPLICANT: Andrade-Gordon, Patricia
; APPLICANT: Darrow, Andrew
; APPLICANT: Qi, Jian-shen
; TITLE OF INVENTION: DNA encoding the novel human serine
; FILE REFERENCE: ORT-1032
; CURRENT APPLICATION NUMBER: US/09/386,653A
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1110
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-386-653A-1

Query Match 15.0%; Score 165.2; DB 4; Length 1110;
Best Local Similarity 53.9%; Pred. No. 1.8e-28;

Matches 416; Conservative 0; Mismatches 338; Indels 18; Gaps 3;

QY 112 GCTAGGAGGCCCCGCTGCTGCGGCGCTGAGCCCTCGGCCCCGATTCGTGGGGGGCTCA 171

Db 93 GCCAAGGCGACACACCTGTGTGCTCCGCCAGATGTGTGAACCGAATGTGGGCGGCGAG 152

QY 172 AACGCGAGCGGCGGCGCTGCGCTTGGGCAAGTGAAGCTGACCATGAGATGAGGTCGACAT 211

Db 153 GACACGCGAGGAGGCGGCGCTGCGCTTGGGCAAGTGAAGTGAAGGCAAGGCGGCGGCTTC 212

QY 232 TGGGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 288

Db 213 TGGGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 272

QY 289 ACCAATGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 348

Db 273 ACCCTGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 332

QY 349 GACGAGGCGCTGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 408

Db 333 CCACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 390

QY 409 TACAGGCGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 468

Db 391 -----CGGCTTCCAGCGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 440

QY 469 CTGGGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 528

Db 441 TTACACCAATTACATCT 500

QY 529 ACCGCTGCTGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 588

Db 501 ATGAACCTGCTGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 560

QY 589 TGGGCTGCTGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 648

Db 561 CGGATCTGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 620

QY 649 AGCCAGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 705

Db 621 AGCAAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 680

QY 706 GGGTACCGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 765

Db 681 GGGTACCGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 740

QY 766 GAGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 825

Db 741 CTGGTGGTCAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 800

QY 826 AGAAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 877

Db 801 CAGAACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 852

OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/023,942A
 FILING DATE: 13-FEB-1998
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: P05101/97
 FILING DATE: 13-FEB-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: P0422/97
 FILING DATE: 18-NOV-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: International PCT Application
 FILING DATE: 13-FEB-1998
 ATTORNEY/AGENT INFORMATION:
 NAME: DIGITAL, FRANK S
 REGISTRATION NUMBER: 31,346
 REFERENCE/DOCKET NUMBER: 11168
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (516) 742 4343
 TELEFAX: (516) 742 4366
 TELEX: 230 901 SANS UR
 INFORMATION FOR SEQ ID NO: 30:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 980 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA

US-09-023-942A-30

Query Match 14.9%; Score 164.2; DB 4; Length 980;
 Best Local Similarity 54.2%; Pred. No. 2,9e-28;
 Matches 409; Conservative 0; Mismatches 328; Indels 18; Gaps 3;

QY 129 CTGCGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 188

Db 2 CTGTGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 61

QY 189 CTGGGCTTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 248

Db 62 GTGGGCTTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 121

QY 249 CGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 305

Db 122 CGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 181

QY 306 GCGCGGCGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 365

Db 182 GTACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 241

QY 366 CGGCGGCGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 425

Db 242 CGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 289

QY 426 GGGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 485

Db 290 CAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 349

QY 486 GCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 545

Db 350 CCGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 409

QY 546 CGGCTGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 605

Db 410 TGGCTGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 469

QY 606 GAGGCTAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 665

Db 470 CGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 529

QY 666 CAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 722

RESULT 6
 US-09-023-942A-30
 Sequence 30. Application US/09023942A
 Patent No. 6479274
 GENERAL INFORMATION:
 APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
 TITLE OF INVENTION: NOVEL MOLECULES
 NUMBER OF SEQUENCES: 30
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
 STREET: 400 GARDEN CITY PLAZA
 CITY: GARDEN CITY
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 11530
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible

Db 530 TGGCTACCAACCCAAACCATCAAGATGATGTCGCGCCGCTTCGAGAGGGCAA 589
QY 723 CAGGACACCTGCGCAGGGTGACTCTGGGGGGGCCCTGATCTGTGAGGAAGCGCGCTG 782
Db 550 GAAAGATGCTGCAGAGGGGACTCGGGGGGCCCTGATGCTGTGAGGATCTGCTG 649
QY 783 GTTCAGGACAGAAATCACAGCTTTGGGTTTGGCTGTGAGAGAAACCGCCTGAGT 842
Db 650 GCTGAGGCGGGGGGATCACTGAGGGGCTGTGCCGCCAGAAACCGCCAGGTGT 709
QY 843 TTTCACTGCTGTGCTACCTATGAGGCAATGATAC 877
Db 710 CTACATCCGTGTACCGCCCAACAACACTGATCC 744

RESULT 7
US-09-620-312D-431
Sequence 431, Application US/09620312D
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Liu, Chenghua
APPLICANT: Asundi, Vinod
APPLICANT: Zhang, Jie
APPLICANT: Ren, Feiyan
APPLICANT: Chen, Rui-hong
APPLICANT: Zhao, Qing A.
APPLICANT: Wehrman, Tom
APPLICANT: Xue, Aidong J.
APPLICANT: Yang, Yonghong
APPLICANT: Wang, Jian-Rui
APPLICANT: Zhou, Ping
APPLICANT: Ma, Yunding
APPLICANT: Wang, Dunrui
APPLICANT: Wang, Zhilwei
APPLICANT: John Tillinghast
APPLICANT: Drmanac, Radoje T.
TITLE OF INVENTION: No. 656962e1 Nucleic Acids and
FILE OF INVENTION: Polypeptides
FILE REFERENCE: 784CIP2B
CURRENT APPLICATION NUMBER: US/09/620, 312D
CURRENT FILING DATE: 2000-07-19
PRIOR APPLICATION NUMBER: 09/552,317
PRIOR FILING DATE: 2000-04-25
PRIOR APPLICATION NUMBER: 09/488,725
NUMBER OF SEQ ID NOS: 1105
SOFTWARE: pc_fl_genes Version 1.0
SEQ ID NO 431
LENGTH: 1212
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (135)..(1007)
US-09-620-312D-431

Query Match 14.7%; Score 162; DB 4; Length 1212;
Best local Similarity 53.6%; Pred. No. 9.4e-28;
Matches 414; Conservative 0; Mismatches 340; Indels 18; Gaps 3;

QY 112 GCTAGGGGCCCCCTACTGCGGGGCGCCTGAGCCCTCGGCCGATCGTGGGGGCTCA 171
Db 192 GCCAAGGAGCAACAGCCTGTGTGTGCCCCAGAGCTGAACCGAATGTGGGCGGGAG 251
QY 172 AACGGCAGCCGGGCACTGGCCTTTGGCAAGTGAAGCTTGCAACATGAGGTGGCCATC 231
Db 252 GACACGCGAGGGGCGAGTGGCCCTGGCAAGTCAAGCATCAGCCGAAAGGCAATTC 311
QY 232 TGGGGGGGCTCCCTATGCGCCGCCCTGGGGCTCTCCGCTGCTCACTGTT---CATTG 288
Db 312 TGGGGGGGAGCTTATGCGCGAGCATGTGGGTCTTACGAGGCTGCGCACTGCTCCGCAAC 371

QY 289 ACGATGGGACGTTTGAAGCCCGCGAGTGTCTGATCTGTGGGCGCTCACTCCAG 348
Db 372 ACCTGTAGAGAGTCCCTGTATCAAGATCTGTGTGGGGGGAAGGACATGTGACGGGA 431
QY 349 GACGGGCGCTTGAAGCGGCGCAACCCGCGCAAGTGGCGCCATCTGTGGCGCGCAAC 408
Db 432 CCACAGCTATGTATGCCCGGGTGAAGGCAAGTGGAGAACACCCCTGTACAGGGCA-- 489
QY 409 TACAGCCAGTGAAGTGGGGCGGACCTGTGGCCCTGTGCGCCCTGACCCCGCAGC 468
Db 490 -----CGGCTTCAGGCTGACGTGGCCCTGTGGTGGAGCTGGAAGCAACATGTGCC 539
QY 469 CTGGGCGCCCGCGATGGGCTGTCTGCGCCCGCGCGCTCAACCGCTGTGACGAGC 528
Db 540 TTCAACCAATTATCTCCCTCCGCTGTGCTGTGCTGTACCCCTGTGATCTTTGAAGCGGCG 599
QY 529 ACCGCTGTGGGCGCACCGGCTGGGGAGAGCTGCAGAGGAGATCTTCTGCTCTCC 588
Db 600 ATGAACGTGTGGTCACTGGCTGGGGGAGCCCGAGTGAAGAACTCTGCGCGAACC 659
QY 589 TGGGTGCTACAGAGTGAAGTAAAGCTGTGGGCGAGGCACTGTGATGATGTCTAC 648
Db 660 CGGATCTGCAGAACTGCTGTGCCCATCATGACACACCAAGTGAACCTGCTTAC 719
QY 649 AGCCAGCCGCTGCTTCAACCTGACTCTCCAGATAT---GCCAGGATGTGTGCT 705
Db 720 AGCAAGACACGAGTTTGGCTACCAACCAAAACATCAAGATGACATGTGTGCGCC 779
QY 706 GGTACCCAGAGGCGCGAGGACACTGTGCAAGGTGACTTGGGGGCGCCCTGTCTGT 765
Db 780 GGTTCGAGAGGGCAGAGAGATGCTGCAAGGGCGACTGGGGCGGCCCTGTGTGTGC 839
QY 766 GAGGAAGGCGGCGCTGTTCAGGCAAGATCAACAGCTTTGGGTTTGGCGTGGAGCG 825
Db 840 CTGTGGTCACTGTGTGCTGACGGGGGTGATCACTGGGGTGAAGGCTGTGCCCGC 899
QY 826 AGAAACGCGCTGAGTTTCACTGTGTGCTACTATGAGGATGATAC 877
Db 900 CAGAACGCGCGAGGTGTCTATACCTGATCAACCGCCACCAACTGATCC 951

RESULT 8
US-09-023-942A-5
Sequence 5, Application US/09023942A
Patent No. 6479274
GENERAL INFORMATION:
APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
TITLE OF INVENTION: NOVEL MOLECULES
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCILLY, SCOTT, MURPHY & PRESSER
STREET: 400 GARDEN CITY PLAZA
CITY: GARDEN CITY
STATE: NEW YORK
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,942A
FILING DATE: 13-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: POS101/97
FILING DATE: 13-FEB-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP0422/97
FILING DATE: 18-NOV-1997
PRIOR APPLICATION DATA:

APPLICATION NUMBER: International PCT Application
FILING DATE: 13-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: DIGIGLIO, FRANK S
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 11168
TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742 4343
TELEFAX: (516) 742 4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1100 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURES:
NAME/KEY: CDS
LOCATION: 17..961
US-09-023-942A-5

Query Match 14.7%; Score 161.6; DB 4; Length 1100;
Best Local Similarity 52.9%; Pred. No. 1.1e-27;
Matches 406; Conservative 0; Mismatches 344; Indels 18; Gaps 2;
QY 130 TGGGGGCGCCCTGAGCCCTGCGCCGATGTGGGGGGCTCAACCGCGACGCGGCGACC 189
DB 113 TGGGGCGCGAGCGGTCACTGCGCGATCGTGGGAGAGAGACGCGCACTCGGGCGGT 172
QY 190 TGGCCTTGGCAATGAGCGCTGACCAATGAGGTGGCGACATCTGCGGGGGCTCCCTCATC 249
DB 173 TGGCGGTGGAGGGAGAGCTGCGCCCTGTGGGATTCGACGTATGCGAGTGAAGCTGCTC 232
QY 250 GCCCCTCTCTGGGTCCTCTCCGCTGCTCACTGTTTCATGCAATGAGATGAGAGCC 309
DB 233 AGCCACCGCTGGGACCTCACTGCGCGGCGACCTGCTTGAACCTATAGTACCTTAGAT 292
QY 310 GCGGCGAGTGTGCGTACTGCTGGGCGTGC-----ACTCCAGAGACGGGGCCCTTG 360
DB 293 CCTCTCGGGGTGAGTGTGCGAGCTGACCTGACATTCATCTTCTGGAGCTTG 352
QY 361 GACGGCGCGACACCGCGAGTGGCGGACATGCTGGTGGCGGCACTACACCAAGT 420
DB 353 CAGGCTACTACACCGCTTACTTGTATGAAATATCTATGTAGCCCTGCTACTGAGG 412
QY 421 GAGCTGCGCGCGACCTGCGCTGCTGCGCTGCTGACCCGCGAGCTGAGCCCGCC 480
DB 413 AATTCAACCTATGACATTTGCTTGTGAAGCTGTGTGACCTGTCACTACCTAAAC 472
QY 481 GTGTGCTGTGTGCTGCGCCCGCGCTCAACCGCTGTGTGACGCGACCGGCTGCTG 540
DB 473 ATCCAGCCCATGCTGTCCAGGCTTCCACATTTGAGTTGAGAACGAGACAGCTGTG 532
QY 541 GCCACCGCTGGGAGACGTCGAGAGGAGATCTGCTGCTCCCTGGGTGTACAG 600
DB 533 GTACCTGCTGGGGGTATCAAAAGAGATGAGGCACTGCACTCCCAACCCCTCAG 592
QY 601 GAAGTGAAGTAAAGCTGCTGGGAGAGCACTGTCAATGTCTTACAGCCACCCGGT 660
DB 593 GAAGTTCAGGTCCCATATATAACAATCTATGTGCAACCACTCTTCTCAAGTACAGT 652
QY 661 CCTTCAACTCACTCTCCAGATATTGCCAGGATGTGTGTCTGTGCTTCCAGAGGAG 720
DB 653 TTCCGCAAGAC-----ATCTTGGAGACATGTTGTGTGTGCAATGCCAAGGC 703
QY 721 CGCAGGACACTGCGCAGGTGACTCTGGGGGGCCCTGTGCTGTGAGAGAGCGCGCG 780
DB 704 GGAAGAGATGCTGCTGCGTGTGATGAGTGAAGCCCTTGGCTGTAAAGAGATGACTG 763
QY 781 TGGTTCAGGAGAGATCACCAAGCTTTGGGTTTGGCTGTGTGAGAGAGAAACCGCCTTGA 840
DB 764 TGGTATCATGATTGAGTGTGAGCTGGGAGTGGGCTGTGTGTGGCCCAATCGGCCGGT 823

QY 841 GTTTTACTGCTGTGCGCTACTATGAGGATGATACGGAGACAGGTG 888
DB 824 GTCTACACCAATATACGACCACTTTGAGTGTATCCAGAAGCTGATG 871
RESULT 9
US-09-907-794A-256
Sequence 256, Application US/09907794A
Patent No. 6635468
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltzen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gunney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavitt, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumae, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,794A
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20

PRIOR APPLICATION NUMBER: PCT/US00/00219
 PRIOR FILING DATE: 2000-01-05
 NUMBER OF SEQ ID NOS: 423
 SEQ ID NO 256
 LENGTH: 1100
 TYPE: DNA
 ORGANISM: Homo Sapien
 US-09-907-794A-256

Query Match 14.7%; Score 161.6; DB 4; Length 1100;
 Best Local Similarity 52.9%; Pred. No. 1,1e-27;
 Matches 406; Conservative 0; Mismatches 344; Indels 18; Gaps 2;

130 TGGGGGCGCCCTGAGCCTCGCCCGCATCTGTGGGGGCTAAACGCGCAGCCGCGCAC 189
 116 TGGGGCGCGCGGTCATCAGCGCGCATCGGGGTGAGAGAGAGCGCGAACTCGGGGCT 175
 190 TGGCCTTGGCAAGTAGGCTGACCATGAGAGGTGGCCATCTGGGGGGCTCCCTCATC 249
 176 TGGCGTGGCAGGGAGGAGCGCTGTGGGATTCGCCATGCGAGGTGAGAGCTGTCTC 235
 250 GCGCCCTCTGAGTCTCTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 309
 236 AGCCACCGCTGGGACCTACAGCGCGCGCGCATCTGTGAAACCTATAGGACCTTAGTAT 295
 310 GCGGCGGAGTGTGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 296 CCGTCGGGCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 355
 361 GACGCGCGCGCACACCGCGCGAGTGGCGCGCATCTGTGGGGCGCGCACTACAGCCAGT 420
 356 CAGGCTTACTACACCGGTTACTTGTATGAGATATCTATGAGCGCTCGTACCTGAGG 415
 421 GAGCTGGCGCGGACCTGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480
 416 AATTACCGCTTATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 475
 481 GTGGGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
 476 ATCCAGCCCATCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 535
 541 GCGCGCGCGCGGAGAGCTGCGAGAGGAGAGAGATCTGCTGCTGCTGCTGCTGCTGCTG 600
 536 GTGAGCTGTGGGGTATATGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 595
 601 GAGTGGAGCTAAGGCTGTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
 596 GAATTTGAGTGGCGCATATGAACAACCTATGTCAGAGAGAGAGAGAGAGAGAGAG 655
 661 CCTTCAACCTCACTCTCAGATATGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
 656 TTCCGCAAGGAC-----ATCTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 706
 721 CGGAGGAG 780
 707 GGGAG 766
 781 TGGTTCAG 840
 767 TGGATATGAGATGAGAGTGTGAGAGTGGGAGAGAGAGAGAGAGAGAGAGAGAGAG 826
 841 GTTTTCACTGCTGTGGCTACTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 888
 827 GTTACAGCAATATACAG 874

RESULT 10
 US-09-905-125A-256
 Sequence 256, Application US/0905125A
 Patent No. 6664376
 GENERAL INFORMATION:
 APPLICANT: Genentech, Inc.
 APPLICANT: Ashkenazi, Avi

APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Baton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, A.
 APPLICANT: Godwiski, Paul J.
 APPLICANT: Grimaldi, Christopher J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Hillan, Kenneth, J.
 APPLICANT: Kljavin, Ivar J.
 APPLICANT: Mather, Jennie P.
 APPLICANT: Pan, James
 APPLICANT: Paoli, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William, I.
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: 10466-14
 CURRENT FILING DATE: US/09/905,125A
 PRIOR APPLICATION NUMBER: PCT/US00/04414
 PRIOR FILING DATE: 2000-02-22
 PRIOR APPLICATION NUMBER: US 60/143,048
 PRIOR FILING DATE: 1999-07-07
 PRIOR APPLICATION NUMBER: US 60/145,698
 PRIOR FILING DATE: 1999-07-26
 PRIOR APPLICATION NUMBER: US 60/146,222
 PRIOR FILING DATE: 1999-07-28
 PRIOR APPLICATION NUMBER: PCT/US99/20594
 PRIOR FILING DATE: 1999-09-08
 PRIOR APPLICATION NUMBER: PCT/US99/20944
 PRIOR FILING DATE: 1999-09-13
 PRIOR APPLICATION NUMBER: PCT/US99/21090
 PRIOR FILING DATE: 1999-09-15
 PRIOR APPLICATION NUMBER: PCT/US99/21547
 PRIOR FILING DATE: 1999-09-15
 PRIOR APPLICATION NUMBER: PCT/US99/23089
 PRIOR FILING DATE: 1999-10-05
 PRIOR APPLICATION NUMBER: PCT/US99/28214
 PRIOR FILING DATE: 1999-11-29
 PRIOR APPLICATION NUMBER: PCT/US99/28313
 PRIOR FILING DATE: 1999-11-30
 PRIOR APPLICATION NUMBER: PCT/US99/28564
 PRIOR FILING DATE: 1999-12-02
 PRIOR APPLICATION NUMBER: PCT/US99/28565
 PRIOR FILING DATE: 1999-12-02
 PRIOR APPLICATION NUMBER: PCT/US99/30095
 PRIOR FILING DATE: 1999-12-16
 PRIOR APPLICATION NUMBER: PCT/US99/30911
 PRIOR FILING DATE: 1999-12-20
 PRIOR APPLICATION NUMBER: PCT/US99/30939
 PRIOR FILING DATE: 1999-12-20
 PRIOR APPLICATION NUMBER: PCT/US00/00219
 NUMBER OF SEQ ID NOS: 423
 SEQ ID NO 256
 LENGTH: 1100
 TYPE: DNA
 ORGANISM: Homo Sapien
 US-09-905-125A-256

Query Match 14.7%; Score 161.6; DB 4; Length 1100;
 Best Local Similarity 52.9%; Pred. No. 1,1e-27;
 Matches 406; Conservative 0; Mismatches 344; Indels 18; Gaps 2;

```
QY 130 TGGGGGCGCTGAGCCCTGAGCCCGCATCTGAGGGGGCTCAAGCGCGAGCGGACCC 189
DB 116 TGGGGGCGAGGGGATCAAGCTGCGGCATCTGAGGGAGAGAGACCCCAACTCGGGCGCT 175
QY 190 TGGCCCTTGGCAAGTGAAGCTGACACCAATGAGAGGGGCAATCTGCGGGGGCTCCCTCATC 249
DB 176 TGGCCCTTGGCAAGTGAAGCTGAGCGCTGAGGGATTCACAGTATGCGGATGAGCGCTGCTC 235
QY 250 GCGCCCTCTCTGAGGCTCTCTCCGCTGCTCACTGTTTCATGACGAATGGAGAGCTTGAAGCCC 309
DB 236 AGCCACCGCTGGGCACTCAAGGGGCGGCACTGCTTGAACCTATGTAACCTTAGTGAT 295
QY 310 GCGGCGGAGTGTGCGGTACTGCTGGGGCGGCGC-----ACTCCAGAGAGCGGGCCCTG 360
DB 296 CCTTCGGGTGATGTGTCAAGTTGGCGAGCTGACCTTCCATGCGCATCTTCTGAGAGCTG 355
QY 361 GACGGGCGGCAACCGCGGCAAGTGGCGGCATCTGAGTGGCGGCGCAACTACAGCCAAAGT 420
DB 356 CAGGCTACTACACCGCGGTACTTCTGATGGAATATCTATCTGAGCGCTGCTACCTGAGGG 415
QY 421 GAGCTGGGCGCGACCTGAGCCCTGCTGCGCTGAGCTGAGCTCAACCGCGCAAGCTGGGCGCC 480
DB 416 AATTCAACCTTATGACATCTGCTTGTGAGAGCTGTGACCTGTCACTTAATAAC 475
QY 481 GTGTGGCGCTGTGCTGCTGCGCGCGGCTGACACCGCTTGTGAGAGCGGCAACCGCTGCTG 540
DB 476 ATCCAGCCCATCTGTCTTCAAGGCTTCCACATTTGAAGTTGAGAACCGGACAGACTCTGG 535
QY 541 GCGACCGGCTGGGAGAGCTGCGAGGAGGAGATCTCTGCTCTCCCTGGGTGTCTACAG 600
DB 536 GTGACCTGGCTGGGGGATCAATCAAGAGGATGAGGAGCACTGCGCATCTCCCAACCTTCCAG 595
QY 601 GAAGTGAAGCTAAGGCTGCTGGGCGAGGCCACTGTGCAATGTCTTCAACGACCGCCGCT 660
DB 596 GAAGTCAAGTCCGCTCAATTAACAATCTATGTGACCACTCTTCTTCAAGTCAAGT 655
QY 661 CCTTGAACCTCACTCTCAAGATATTTGCCAGGAGATCTGTGCTGCTGCTACCCAGAGGG 720
DB 656 TTCCGCAAGGAC-----ATCTTGGAGACATGTTGTCTGTGCGCAACGCGCAAGG 706
QY 721 CGCAGGAGACCTGCGCAGAGTGACTCTGAGGGGCGCCCTGTGCTGTGAGAGAGCGGCGCG 780
DB 707 GGGAGAGATCTGCTTGGGTGACAGAGTGAACCTTGGCTGTAAACAAGATGACCTG 766
QY 781 TGGTTCAGGAGGAAATCAACAGCTTGGGTTGGCTGTGAGAGAGAAACCGCCCTGGA 840
DB 767 TGGTATCAAGATGAGAGCTGAGCTGGGAGTGGGCTGTGTGCTGCGCCCAATCGAGCCGCT 826
QY 841 GTTTTCACTGCTGTGGCTACTATGAGGAGATGAGGAGAGGAGG 888
DB 827 GTCTACACCAATATACGCCACACTTTGAGTGAATCCAGAGCTGATG 874
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RESULT 11
US-09-902-775A-256

Sequence 256, Application US/09902775A

Patent No. 6686431

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.

APPLICANT: Ashkenazi, Avi

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Baton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Filvaroff, Billen

APPLICANT: Pong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Geritsen, Mary E.

APPLICANT: Goddard, A.

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, Christopher J.

APPLICANT: Gurney, Austin L.

```
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,775A
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 256
LENGTH: 1100
TYPE: DNA
ORGANISM: Homo Sapien
US-09-902-775A-256
Query Match 14.7%; Score 161.6; DB 4; Length 1100;
Best Local Similarity 52.9%; Pred. No. 1,1e-27;
Matches 406; Conservative 0; Mismatches 344; Indels 18; Gaps 2;
```


RESULT 13
US-09-023-942A-25
Sequence 25, Application US/09023942A
Patent No. 6479274
GENERAL INFORMATION:
APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
TITLE OF INVENTION: NOVEL MOLECULES
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
STREET: 400 GARDEN CITY PLAZA
CITY: GARDEN CITY
STATE: NEW YORK
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,942A
FILING DATE: 13-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: POS101/97
FILING DATE: 13-FEB-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP0422/97
FILING DATE: 18-NOV-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: International PCT Application
FILING DATE: 13-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: DIGILIO, FRANK S
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 11168
TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742 4343
TELEFAX: (516) 742 4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 959 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..856
US-09-023-942A-25

Query Match 14.3%; Score 157.6; DB 4; Length 959;
Best Local Similarity 52.4%; Pred. No. 8.8e-27;
Matches 377; Conservative 0; Mismatches 334; Indels 9; Gaps 1;

QY 129 CTGCGGCGGCTGAGCCCTTGAGCCGCTGAGCGGCGGCTCAACGCGGCGGCGGCGAC 188
DB 19 CTGCGGTCACAGACGACATCCCTTCCGTATAGTGGGTGGGATGATGCTGAGCTTGGCCG 78
QY 189 CTGCGCTTGGCAAGTAGGCTTGACCACTGAGAGTGGGCAATCTGGCGGGGCTCCCTCAT 248
DB 79 CTGCGCTTGGCAAGTAGGCTTGACCACTGAGAGTGGGCAATCTGATGAGGCAACTTATGATGCGCAACTTGTCT 138
QY 249 CGCGCCCTCTGAGGATCTCTCCGCTGCTCACTGTTTCATGACCAATGAGAGCTTGGAGCC 308
DB 139 CAACCGCGCTGGGTGCTTACAGTGCCTCCACTGCTTCCAAAAGATACGATCCTTTGA 198
QY 309 CGCGGCGGAGTGTGCTGCTACTGCTGAGCGTGCACCTCCGAGAGCGGCGCTTGAAGGCGC 368

DB 199 CTGACAGATCCAGTTTGTGAGCTGACTTCCAGGCACTCTCTGGAACCTACAGGCTTA 258
QY 369 GCAACACCCGCGAGATGAGCCGCACTGCTGCTGGCGCAACTACAGCAAGTGAAGCTGGG 428
DB 259 TTCCAAACGCTTACCAATGAAAGATATTTTCTTGAGCCCGCAAGTATCTGGAGAGATCC 318
QY 429 CGCGGACCTGAGCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 488
DB 319 CAATGACATAGCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 378
QY 489 TGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 548
DB 379 CATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 438
QY 549 CTGCGGAGAGCTCCAGGAGGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 608
DB 439 CTGCGGAGAGCTTATGAGAGATGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 498
QY 609 GCTAAGGCTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 668
DB 499 GGTAGCTATATCAACAACAGCATGTGTAACATAATGTAACAAAAGCCAG-----A 549
QY 669 CTTGCTCTCCAGATATTTGCCAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 728
DB 550 CTTCCGCAAGAACATCTGGGAGAGACATGTTTGCCTGCTGCTGCTGCTGCTGCTGCTGCTG 609
QY 729 CACTGCGCAGAGGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 788
DB 610 TGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 669
QY 789 GGCAGGATCACCAGCTTGGGTTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 848
DB 670 GGTGAGGTGTGAGCTGGGGAATAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 729

RESULT 14
US-09-023-942A-3
Sequence 3, Application US/09023942A
Patent No. 6479274
GENERAL INFORMATION:
APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
TITLE OF INVENTION: NOVEL MOLECULES
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
STREET: 400 GARDEN CITY PLAZA
CITY: GARDEN CITY
STATE: NEW YORK
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,942A
FILING DATE: 13-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: POS101/97
FILING DATE: 13-FEB-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP0422/97
FILING DATE: 18-NOV-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: International PCT Application
FILING DATE: 13-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: DIGILIO, FRANK S
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 11168
TELECOMMUNICATION INFORMATION:

TELEPHONE: (516) 742 4343
TELEFAX: (516) 742 4366
TELEX: 230 901 SAMS UR
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1094 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 17..955
US-09-023-942A-3

Query Match 14.0%; Score 154.8; DB 4; Length 1094;
Best Local Similarity 52.2%; Pred. No. 3.9e-26;
Matches 398; Conservative 0; Mismatches 352; Indels 12; Gaps 2;

130 TCGCGGCGCCCTGAGCCCTCGGCGCCGATCGGCGGCTCAACGCGCGACGCGGCGACC 189
113 TCGCGCGCGCGGATCATACGTCGCGCATCGGCGTGAAGAGAGCGCGGACTCGGCGGT 172
190 TGGCTTGGCAAGTGAAGCTTGACCATGAGGTGCGCATCTGCGGCGGCTCCCTCATC 249
173 TGGCGGTGCGAGGGAGCGCTCGCGCTGCGGATCCCGATGCGAGTGAAGCTGCTC 232
250 GCGCCCTCTGGGCTCTCGCGCTGCTCATCTGTTCAAGAGAGAGAGAGAGAGAGAGCC 309
233 AGCCACCGCTGGGCACTACGCGGCGGCACTGCTTTGAAAGCTGAACTTGAATCTCTCC 292
310 G---CGGCGAGTGTGCGGTAATGCTGCGGCGGCGCATCCAGAGCGGCGCCCTGAGAGC 366
223 GGGTGGATGATGCGCATTTTGGCGAGCTGCTTCAGCATCTTGTGAAGCTGAGAGCGC 352
367 GCGCACACCGCGCGAGTGGCGCGCATCTGCTGCGCGCGCACTACAGCGCAAGTGAAGCTG 426
353 TACTACACCGCTTCTGTAATGCAATCTATCTGAGCCCTCGTACCTGCGGAGATTCA 412
427 GCGCGCGAGCTGGCGCTGCTGCGCTGCGCTGCGCGCGAGCGCTGCGCGCGCGCTGAG 486
413 CCTATGACATTTGCTTGGTGAAGCTGCTGCGCATCTGCGCATCTGCGCGCGAGATTCA 472
487 CCGTCTGCTGCGCGCGCGCTGCGCTGCGCATCTGCGCGCGCGCGCTGCGCGCGCGCGC 546
473 CCTATCTGCTGCGCGCGCTGCGCATCTTGAATTTGAAGAGCGAGAGAGAGAGAGAGCT 532
547 GCGTGGGAGAGCTGCGAGAGAGAGATCTCTGCTCTGCGCTGCGCGCGCGCGCTGAGAGT 606
533 GCGTGGGAGAGCTGCGAGAGAGAGATCTGCGCATCTGCGCGCGCGCGCGCGCGCGAGTT 592
607 GAGCTAAGGCTGCGGCGGAGAGCGCATCTGCGCATCTGCGCGCGCGCGCGCGCGCGCTTC 666
593 CAGGTGCGCATTAAGCACTCTATGTCAGACCACTCTTCTCAAGTCAAGTTTCCGC 652
667 AACCTCACTCTCCAGATATTTGCGAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 726
653 AAGAGC-----ATCTTGGAGACATGTTTGGTGGCGAGAGCGCGAGAG 703
727 GACACTTGCAGAGGAGTCTTGGGCGGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 786
704 GATGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 763
787 CAGGAGAGATCAACAGCTTTGGTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 846
764 CAGATTTGAGTGTGAGCTGCGGAGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 823
847 ACTGCTGTGCTTACTATGAGCGATGATACGCGAGAGAGT 888
824 ACCAATATCAGCCACACTTTGATGATCCAGAGCTGATG 865

RESULT 15

US-09-386-653A-8
Sequence 8, Application US/0938653A
Patent No. 6458564
GENERAL INFORMATION:
APPLICANT: Darrow, Andrew
APPLICANT: Darrow, Andrew
TITLE OF INVENTION: DNA encoding the novel human serine
TITLE OF INVENTION: protease T
FILE REFERENCE: ORT-1032
CURRENT APPLICATION NUMBER: US/09/386,653A
CURRENT FILING DATE: 1999-08-31
NUMBER OF SEQ ID NOS: 11
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 8
LENGTH: 1130
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Fusion gene of
OTHER INFORMATION: Protease T in a zymogen activation vector
US-09-386-653A-8

Query Match 14.0%; Score 153.8; DB 4; Length 1130;
Best Local Similarity 53.9%; Pred. No. 6.6e-26;
Matches 392; Conservative 0; Mismatches 317; Indels 18; Gaps 3;

157 ATCGGGGGGGCTCAACGCGCGAGCGCGCGCTGCGCTTGGCAAGTGAAGCTGACCAT 216
166 ATCGTGGGGGCTATGCTTGAAGAGGCGAGTGGCTTGGCAAGTGAAGCTGACCAT 225
217 GAGGTGGCGCATCTGCGGCGGCTCCCTCATGCGCGCGCGCGCGCGCGCGCTGCGCT 276
226 AAGGAGACCATCTTGGCGGAGGAGAGCGCTTCAATCGGAGAGAGTGGCTTGAAGCGCT 285
277 CACTGTT---CATGAGATGAGAGCTTGAAGCGCGCGCGCGCGCGCGCGCTGCTGCT 333
286 CACTGCTTCCGCAACCTCTGAGAGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGAG 345
334 GCGGCGCATCTCCAGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCAT 393
346 CTAGTGGCGCGGAG 405
394 GTGTGCGCGCGCATCAAGCGAGAGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 453
406 CTGATACAGAGCA-----CGGCTTCCAGCGCGCTGAGAGTGGCGCGCGCGCGCGCT 453
454 GCTTACCGCGCGAGCTGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCAC 513
454 GAGGACACAGAGCGCTTCAACCATTAATCTCTCCCGTGTGCTGCTGAGAGCGCGCGGT 513
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574 CTCTGCGCGAGAGCGCGAGATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 633
634 TGTCAATGCTCTAAGAT 690
634 TGAACCTGCTCTAAGAT 693
691 GGGATGCTGTGCTGCTTACCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 750
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751 GCGCGCGCTGCTGTGAG 810
754 GCGCGCGCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 813
811 TTGCTGTGAG 870

Thu Aug 5 07:18:02 2004

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Page 12

Db 814 GAGGCTGTGCCCCGCGAGAACCGCCGAGTGTCTACATCCGTGTCAACGCCACACAAAC 873

Qy 871 TGGATAC 877

Db 874 TGGATCC 880

Search completed: August 4, 2004, 15:35:58
Job time : 110 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 15:26:04 ; Search time 556 Seconds
(without alignments)
9718.094 Million cell updates/sec

Title: US-10-037-417-45

Perfect score: 1102
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Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 3222919 seqs, 2451570024 residues

Total number of hits satisfying chosen parameters: 6445838

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications NA:*

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- 2: /cgn2_6/ptodata/1/pubpna/PCR_NEW_PUB.seq:*
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- 19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	1102	100.0	1102	13	US-10-037-417-43 Sequence 43, Appl
2	1102	100.0	1102	13	US-10-037-417-45 Sequence 45, Appl
3	815.6	74.0	2457	9	US-09-888-615-52 Sequence 52, Appl
4	233.4	21.1	3382	15	US-10-101-510-447 Sequence 447, Appl
5	230.8	20.9	1733	15	US-10-176-847-85 Sequence 85, Appl
6	226.4	20.5	944	17	US-10-311-591A-5 Sequence 5, Appl
7	225.6	20.5	843	17	US-10-451-168-46 Sequence 46, Appl
8	225.6	20.5	849	17	US-10-451-168-47 Sequence 47, Appl
9	225.6	20.5	1020	16	US-10-051-874-25 Sequence 25, Appl
10	224	20.3	1606	17	US-10-470-390A-35 Sequence 35, Appl
11	224	20.3	1613	14	US-10-041-400A-1 Sequence 1, Appl
12	224	20.3	1613	14	US-10-041-264A-1 Sequence 1, Appl
13	224	20.3	1613	14	US-10-042-091A-1 Sequence 1, Appl
14	221.2	20.1	1834	9	US-09-948-094-1 Sequence 1, Appl

15	221.2	20.1	1834	9	US-09-880-107-2214	Sequence 2214, Ap
16	221.2	20.1	1834	9	US-09-967-768A-141	Sequence 141, Ap
17	221.2	20.1	1834	12	US-09-968-007A-115	Sequence 115, Ap
18	221.2	20.1	1834	12	US-09-968-007A-379	Sequence 379, Ap
19	221.2	20.1	1834	15	US-10-097-340-261	Sequence 261, Ap
20	220.6	20.0	1668	9	US-09-925-301-208	Sequence 208, Ap
21	216.8	19.7	1130	14	US-10-041-400A-8	Sequence 8, Appl
22	216.8	19.7	1130	14	US-10-041-264A-8	Sequence 8, Appl
23	216.8	19.7	1130	14	US-10-042-091A-8	Sequence 8, Appl
24	205.2	18.6	786	17	US-10-311-591A-1	Sequence 1, Appl
25	195.2	17.7	1797	15	US-10-109-616-1	Sequence 1, Appl
26	185.6	16.8	882	13	US-10-042-865-33	Sequence 33, Appl
27	184	16.7	882	13	US-10-042-865-34	Sequence 34, Appl
28	180.8	16.4	768	15	US-10-221-097-10	Sequence 10, Appl
29	179	16.2	1161	13	US-10-042-865-31	Sequence 31, Appl
30	176.2	16.0	1327	9	US-09-978-295A-170	Sequence 170, Appl
31	176.2	16.0	1327	9	US-09-978-697-170	Sequence 170, Appl
32	176.2	16.0	1327	9	US-09-978-192A-170	Sequence 170, Appl
33	176.2	16.0	1327	9	US-09-999-832A-170	Sequence 170, Appl
34	176.2	16.0	1327	10	US-09-978-189-170	Sequence 170, Appl
35	176.2	16.0	1327	10	US-09-978-608A-170	Sequence 170, Appl
36	176.2	16.0	1327	10	US-09-978-585A-170	Sequence 170, Appl
37	176.2	16.0	1327	10	US-09-978-191A-170	Sequence 170, Appl
38	176.2	16.0	1327	10	US-09-978-403A-170	Sequence 170, Appl
39	176.2	16.0	1327	10	US-09-978-564A-170	Sequence 170, Appl
40	176.2	16.0	1327	10	US-09-999-833A-170	Sequence 170, Appl
41	176.2	16.0	1327	10	US-09-981-915A-170	Sequence 170, Appl
42	176.2	16.0	1327	10	US-09-978-824-170	Sequence 170, Appl
43	176.2	16.0	1327	10	US-09-918-585A-170	Sequence 170, Appl
44	176.2	16.0	1327	10	US-09-978-423A-170	Sequence 170, Appl
45	176.2	16.0	1327	10	US-09-978-193A-170	Sequence 170, Appl

ALIGNMENTS

RESULT 1
US-10-037-417-43
Sequence 43, Application US/10037417
Publication No. US20040052806A1
GENERAL INFORMATION:
APPLICANT: Kekuda, Ramesh
APPLICANT: Alsobrook II, John P
APPLICANT: Tchiernev, Velizar T
APPLICANT: Liu, Xiaohong
APPLICANT: Spytek, Kimberly A
APPLICANT: Patturajan, Meera
APPLICANT: Grosse, William M
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine E
APPLICANT: Vernet, Corinne A.M.
APPLICANT: Li, Li
APPLICANT: Gorman, Linda
APPLICANT: Kdinger, Shlomit R
APPLICANT: Sclore, Paul
APPLICANT: Ellerman, Karen
APPLICANT: Malyankar, Uriel M
APPLICANT: Rothenberg, Mark
APPLICANT: Stone, David J
APPLICANT: Boldog, Ferenc L
APPLICANT: Guo, Xiaojia
APPLICANT: Shenoy, Suresh G
APPLICANT: Anderson, David W
APPLICANT: Padigar, Muralidhara
APPLICANT: Taupier Jr, Raymond J
APPLICANT: Miller, Charles E
APPLICANT: Eisen, Andrew J
TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-235
CURRENT APPLICATION NUMBER: US/10/037, 417
CURRENT FILING DATE: 2002-09-20
PRIOR APPLICATION NUMBER: 60/260, 018
PRIOR FILING DATE: 2001-01-05

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PRIORITY APPLICATION NUMBER: 60/260,360
PRIORITY FILING DATE: 2001-01-08
PRIORITY APPLICATION NUMBER: 60/272,411
PRIORITY FILING DATE: 2001-02-28
PRIORITY APPLICATION NUMBER: 60/272,817
PRIORITY FILING DATE: 2001-03-02
PRIORITY APPLICATION NUMBER: 60/291,186
PRIORITY FILING DATE: 2001-05-15
PRIORITY APPLICATION NUMBER: 60/303,231
PRIORITY FILING DATE: 2001-07-05
PRIORITY APPLICATION NUMBER: 60/305,060
PRIORITY FILING DATE: 2001-07-12
PRIORITY APPLICATION NUMBER: 60/318,405
PRIORITY FILING DATE: 2001-09-10
PRIORITY APPLICATION NUMBER: 60/318,700
PRIORITY FILING DATE: 2001-09-12
NUMBER OF SEQ ID NOS: 227
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 43
LENGTH: 1102
TYPE: DNA
ORGANISM: Homo sapiens
US-10-037-417-43

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QY	61	GTGGCCAAATTCGTACTCATCTCACTTATTAACGGGTGTGGCGGTCCGAGCCCGCTAGGGGC	120
Dp	61	GTGGCCAAATTCGTACTCATCTCACTTATTAACGGGTGTGGCGGTCCGAGCCCGCTAGGGGC	120
QY	121	CCCCCGAATCTGCGGGCGCGCTGAGCGCTTCGCGCCGSCATCTGTGGGGGGCTCAAAAGCGCGAG	180
Dp	121	CCCCCGAATCTGCGGGCGCGCTGAGCGCTTCGCGCCGSCATCTGTGGGGGGCTCAAAAGCGCGAG	180
QY	181	CCGGGCACTTGAGCTTTGGCAATGAGCTGCAACACATGAGAGGTGGCACATCTGCGGGGGC	240
Dp	181	CCGGGCACTTGAGCTTTGGCAATGAGCTGCAACACATGAGAGGTGGCACATCTGCGGGGGC	240
QY	241	TCCTCATTCGCCCCCTCTGGGTCTCTTCGCGTGTCACTGTTTATGAACGATGGAGCG	300
Dp	241	TCCTCATTCGCCCCCTCTGGGTCTCTTCGCGTGTCACTGTTTATGAACGATGGAGCG	300
QY	301	TTGAGAGCCCGGCGCGAGATGGTCGGTATCTGCTGGGCGAGCACTCCCAAGAGCGGGCCCTG	360
Dp	301	TTGAGAGCCCGGCGCGAGATGGTCGGTATCTGCTGGGCGAGCACTCCCAAGAGCGGGCCCTG	360
QY	361	GACGCGCGGCAACACCCGCGAGATGGCGGCAATCTGTGTTCGGGCGGCAACTACAGCAAGTG	420
Dp	361	GACGCGCGGCAACACCCGCGAGATGGCGGCAATCTGTGTTCGGGCGGCAACTACAGCAAGTG	420
QY	421	GAGCTGGCGCGGCAACTGGGCCCTGTGTGGGCTGAGGCTCAACCGCGAGGCTGGGCCCGCGC	480
Dp	421	GAGCTGGCGCGGCAACTGGGCCCTGTGTGGGCTGAGGCTCAACCGCGAGGCTGGGCCCGCGC	480
QY	481	GTGTGGCTGTCTGTGCTTGGCCCGCGCTTCACACCGCTTCGTGTGACAGGACCGCTGTCTGG	540
Dp	481	GTGTGGCTGTCTGTGCTTGGCCCGCGCTTCACACCGCTTCGTGTGACAGGACCGCTGTCTGG	540
QY	541	GCCACCGGCTTGGGAGAGCTTCAGAGGCAATCTCTGCTCTTCCTTGGGTGCTAACAG	600
Dp	541	GCCACCGGCTTGGGAGAGCTTCAGAGGCAATCTCTGCTCTTCCTTGGGTGCTAACAG	600
QY	601	GAAATGAGCTAAAGCTGTGGGCGAGGCACTGTCAATGTCCTTACAGCGAGCCCGAT	660
Dp	601	GAAATGAGCTAAAGCTGTGGGCGAGGCACTGTCAATGTCCTTACAGCGAGCCCGAT	660
QY	661	CCCTTCAACTCACTCTCCAGATAATTGCGAGGGATCTGTGTGCTGTGCGTACCCAGAGGGC	720

Db	661	CCCTTCAACTCACTCTTCCAGATATTGCGAGGAGTCTGTGTGCTGGCTTACCCAGAGGCG	720
Qy	721	CGCAGGACACCTTGCCAGGGTGACTCTGCGGGGCGCCCTGTGTCTGTGAGGAAGCGACGCG	780
Db	721	CGCAGGACACACTCTCCAGGGTGACTCTGCGGGGCGCCCTGTGTCTGTGAGGAAGCGCGCGC	780
Qy	781	TGTTTCCAGGACAGGAATTCACCACTTTGGGTTTGTGCTGTGAGCGAGAAAACCGCCCTGGA	840
Db	781	TGTTTCCAGGACAGGAATTCACCACTTTTGGGTTTGGCTGTGAGCGAGAAAACCGCCCTGGA	840
Qy	841	GTTTTCACTGTGTGGCTACCTTATGAGGCAATGATACGGGAGCGAGGTGATGGGTTTCAGAG	900
Db	841	GTTTTCACTGTGTGGCTACCTTATGAGGCAATGATACGGGAGCGAGGTGATGGGTTTCAGAG	900
Qy	901	CTTGAGGCTGTGCTTTCCACCCAGGCGCCGACAAAGACCCAGTCAAGTTGTTTACATCAAAACG	960
Db	901	CTTGAGGCTGTGCTTTCCACCCAGGCGCCGACAAAGACCCAGTCAAGTTGTTTACATCAAAACG	960
Qy	961	GCATTCTGTGATTTCTGCGAAGATCTTTTGAAGCGCTTTGTCCATATATACAGTAGAGATC	1020
Db	961	GCATTCTGTGATTTCTGCGAAGATCTTTTGAAGCGCTTTGTCCATATATACAGTAGAGATC	1020
Qy	1021	TCAACTTGGGACCAAAAACCTTTGTCTTCCCTGGCTCTTCCACACCTCTCTCTGCGGCTTC	1080
Db	1021	TCAACTTGGGACCAAAAACCTTTGTCTTCCCTGGCTCTTCCACACCTCTCTCTGCGGCTTC	1080
Qy	1081	TGGGGGTTCTGATGGGCGCTCC 1102	
Db	1081	TGGGGGTTCTGATGGGCGCTCC 1102	

RESULT 2
US-10-037-417-45

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Sequence 45, Application US/100374417
Publication No. US20040052806A1
GENERAL INFORMATION:
APPLICANT: Kekuda, Ramesh
APPLICANT: Alsobrook II, John P
APPLICANT: Tchernev, Velizar T
APPLICANT: Liu, Xiaohong
APPLICANT: Spytek, Kimberly A
APPLICANT: Patturajan, Meera
APPLICANT: Grosse, William M
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine E
APPLICANT: Vernet, Corine A.M.
APPLICANT: Li, Li
APPLICANT: Gorman, Linda
APPLICANT: Edinger, Shlomit R
APPLICANT: Sciore, Paul
APPLICANT: Ellerman, Karen
APPLICANT: Malyanekar, Uriel M
APPLICANT: Rothenberg, Mark
APPLICANT: Stone, David J
APPLICANT: Boldog, Ferenc L
APPLICANT: Guo, Xiaojia
APPLICANT: Shenoy, Suresh G
APPLICANT: Anderson, David W
APPLICANT: Padigaru, Muralidhara
APPLICANT: Taupier Jr, Raymond J
APPLICANT: Miller, Charles E
APPLICANT: Eisen, Andrew J
TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-235
CURRENT APPLICATION NUMBER: US/10/037,417
CURRENT FILING DATE: 2002-09-20
PRIOR APPLICATION NUMBER: 60/260,018
PRIOR FILING DATE: 2001-01-05
PRIOR APPLICATION NUMBER: 60/260,360
PRIOR FILING DATE: 2001-01-08
PRIOR APPLICATION NUMBER: 60/272,411
PRIOR FILING DATE: 2001-02-28

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? PRIOR APPLICATION NUMBER: 60/272,817
? PRIOR FILING DATE: 2001-03-02
? PRIOR APPLICATION NUMBER: 60/291,186
? PRIOR FILING DATE: 2001-05-15
? PRIOR APPLICATION NUMBER: 60/303,231
? PRIOR FILING DATE: 2001-07-05
? PRIOR APPLICATION NUMBER: 60/305,060
? PRIOR FILING DATE: 2001-07-12
? PRIOR APPLICATION NUMBER: 60/318,405
? PRIOR FILING DATE: 2001-09-10
? PRIOR APPLICATION NUMBER: 60/318,700
? PRIOR FILING DATE: 2001-09-12
? NUMBER OF SEQ ID NOS: 227
? SOFTWARE: PatentIn Ver. 2.1
? SEQ ID NO 45
? LENGTH: 1102
? TYPE: DNA
? ORGANISM: Homo sapiens
US-10-037-417-45

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Best Local Similarity	100.0%;	Pred. No. 3.9e-288;		
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Dib 1 GGAGCCTTGTCTGGAGCCATGAGCCAGAAAGGGGTCTGGAGCCAGTGGAGGCT 60

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Db 61 GTGGCCATTCTGACTCATACTTACCGGTTGTCGCCGTCCGGACCGGCTAGGGGC 120

121 CCCCCGTAAGCGGCGCCCTGAGCCTCGGCCCCGATCTGAGGGGCTAAACCGCAG 180

Db 121 CCCCCGTAAGCGGCGCCCTGAGCCTCGGCGCGCATGTTGGGGGGGCTCAAAACGCGCAG 180

181 CCGGACACCTGGGCTTGGCAAGTAGACCTGACCACTGAGAGTGGCCATCTGCCGGGGGC 240

181 CCGGACCTGGCCCTGGCAAGTAGCCTGCACCATGGAGGTGGCCACATCTGCGGGGGC 240

241 TCCCTCAGCGCCCCCTCCGAGGCTCTCCGCGTGCACCTGTTTCATGCGAATGGGACG 300

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361 GACGGCGCGACACCCGCGGAGTGGACCGCCATCGTGTGCGCGCCAACTACGCCAAGTG 420

Db 361 GACGGCGGCACACCGCGCAGTGGCGGCATCTGTGTCGGGCACTACAGCCAAGT 420

421 GAGCTGGGCGCCGACCTGGGCTGCTGGCGGCTTCACCCGACAGCTGGGCGCC 480

Db 421 GAGCTGGGGCCCGACCTGGGCTGTGCGGCTGGGCTCAACCGGCAAGCCTGGGCCCCGCC 480

481 GGTGTGCGCTGTCTGCTGCTGCGCGCTTCAACCGCTTCGTGACGGACCGCGCTGTGG 540

Ddb 481 GTGTGGCCTGTCTGCGCCGCGCTCAACACCGCTTCTGTGCAAGGCACCGCCTGTGG 540

541 GCCACCGGCTGGGGACGTCACGAGAGGCAGATCTCTGCTCTCCCCCTGGTGCTACAG 600

541 GCCACCCGGCTGGGAGACGCTCCAGGAGCAAGTCCCTTGCCCTTCCCCGGGTGCTACAG 600

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661 CCCCTTCACTCTCTCCAGATATTGCCAGGATCTGTGTGCTCTACCCAGAGGC 720

721 CGCAGGACACCTGCAGGGTGACTCTGGGGGCCCTTGTCCTTGAGGAAGCGGCCGC 780

Db	721	CGCAGGAGCACCCTGCGCAGGGTGACTCTGGGGGGGCCCTGGTCTGTGAGGAAGCGCCGC	780
QY	781	TGTTTCCAGCGAGGAATCACCAGTTTGGGTTTGGCTGTGACCGAGAAACCCGCCCTCGA	840
Db	781	TGTTTCCAGCGAGGAATCACACGTTTGGGTTTGGCTGTGACCGAGAAACCGGCCCTCGA	840
QY	841	GTTTTCACTGCTGGGCTACCTATGAGGACATGATACGGGAGCAGGTGATGGGTTCAAG	900
Db	841	GTTTTCACTGCTGGGCTACCTATGAGGACATGATACGGGAGCAGGTGATGGGTTCAAG	900
QY	901	CCTGAGCCTGCTTTTCCACCCAGGCCCCAGAAACCACTGACATTTGTTTACATCAACG	960
Db	901	CCTGAGCCTGCTTTTCCACCCAGGCCCCAGAAACCACTGACATTTGTTTACATCAACG	960
QY	961	GCATTTCGAGTTCGTGCGAGAACTCCTTTTGAGGCCCTGTGCCATATATCAGTGAAGTC	1020
Db	961	GCATTTCGAGTTCGTGCGAGAACTCCTTTTGAGGCCCTGTGCCATATATCAGTGAAGTC	1020
QY	1021	TCAACTGGGACCAAAAGCTTGTCTCCCTCGGCTCTCTCCACACTCTCTCTGAGCCCTC	1080
Db	1021	TCAACTGGGACCAAAAGCTTGTCTCTCCCTCGGCTCTCTCTCCACACTCTCTCTGAGCCCTC	1080
QY	1081	TGGGGGTTTGTGATGGGCGCTCC	1102
Db	1081	TGGGGGTTTGTGATGGGCGCTCC	1102

RESULT 3
US-09-886-615-52

Sequence 52, Application US/09888615
; Patent No. US20020064856A1
; GRANTED BY THE PATENT OFFICE

;; GENERAL INFORMATION:
;; APPLICANT: PLOWMAN, GREGORY
;; APPLICANT: BRYANT, DAVID

RELOCATA: WILLIS, ERIC
; APPLICANT: CAENESEEL, SEAN
; APPLICANT: CHARYDCZAK, GLEN

APPLICANT: MANNING, GERRARD
APPLICANT: SUDARSANAM, SUCHA

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; TITLE OF INVENTION: NOVEL PROTEASES
; FILE REFERENCE: 038602/1214

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; CURRENT APPLICATION NUMBER: US/09/688,615
; CURRENT FILING DATE: 2001-06-26
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;
 ; PRIOR APPLICATION NUMBER: 60/214,047
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 ; PRIOR FILING DATE: 2000-06-26
 ;
 ; NUMBER OF SEQ. ID NOS.: 160

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; NUMBER OF SEQ ID NOS: 150
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 52

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1 23 12 10 2
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; LENGTH: 2457
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; TYPE: DNA

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! ORGANISM: Homo sapiens
US-09-888-615-52

Query Match	74.0%	Score 815.6;	DB 9;	Length 2457;
-------------	-------	--------------	-------	--------------

Best Local Similarity 99.5%; Pred. NO. 1.2e-210;
Matches 818; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 124 CCGTACTGCGGGGCCCTGAGCCCTCGGCCCATCTGTGGGGGGCTCAACGCGCAGCGG 183

Db 106 CTGGAAGTGGGGGCGCCCTGAGCCCTCGGCGCGCATCGTGGGGGGCTCAACGCGGAGCCG 165

QY 184 GGACCTGGCCTTGGCAAGTAGCGCTGACCAATGAGGTGGCCACATCTGCGGGGGCTCC 243

Db 166 GGCACCTGGCCCTTGGCAGTGAAGCTGCACCATGGAGGTGGCCACACTCTGGGGGGCTCC 225

244 CTGATGCGCCGCTGGTTCCTCCGCGCGACATGTTCAAGACGATGGGAGTGG 303
QY
245
246

DB CACATGCCCCCCTCCCTGGTTCCTGCACAGTTTCATGACAAAGGACCGC 207

Ox 304 GAGCCCCCGGCGAGTGCGGTACTTGAATGGAGCGGCAATTGCCAAGGAGCGGCGCCCTGGAC 363

286 GAGCCCGCGAGCTGATCGGTACTGCTGGGCGTGCATCCACGACGGGCCCCCTGGAC 345

QY	364	GGCGGACACACCCGGCAGTGGCCGCAATCGTGGTGCAGGCAACTACAGCCAAATGGAG	423
Db	346	GGCGGACACACCCGGCAGTGGCCGCAATCGTGGTGCAGGCAACTACAGCCAAATGGAG	405
QY	424	CTGGGCGCCGACCTGGAGCCCTGCTGGCGCTTGAGCTTCAACCCGCAAGCCCTGGCGGTG	483
Db	406	CTGGGCGCCGACCTGGAGCCCTGCTGGCGCTTGAGCTTCAACCCGCAAGCCCTGGCGGTG	465
QY	484	TGGCGTGTCTGCTTCCGCGCCGCTTCAACCGGCTTGTGGACAAGGACCGGCTGTGGGGCC	543
Db	466	TGGCGTGTCTGCTTCCGCGCCGCTTCAACCGGCTTGTGGACAAGGACCGGCTGTGGGGCC	525
QY	544	ACCGGCTGGGAGACGTCCAGGAGGACAGTCTCTGCGCTCTCCCGCGGGGTCTACAGAA	603
Db	526	ACCGGCTGGGAGACGTCCAGGAGGACAGTCTCTGCGCTCTCCCGCGGGGTCTACAGAA	585
QY	604	GTTGAGCTTAAGGCTGTGGCGAGGCGCACCTTGATCAATGTCCTTACAGCCAGCCGGTCCC	663
Db	586	GTTGAGCTTAAGGCTGTGGCGAGGCGCACCTTGATCAATGTCCTTACAGCCAGCCGGTCCC	645
QY	664	TTCAACCTCACTCTTCCAGATATTGGCAAGGATGCTGTGTGCTGGCTTACCAAGGCGCCG	723
Db	646	TTCAACCTCACTCTTCCAGATATTGGCAAGGATGCTGTGTGCTGGCTTACCAAGGCGCCG	705
QY	724	AGGGAACCTGCAAGGTGACTCTGAGGGGGCCCTGCTGTGTGAGGAAAGCGGCGGCTGG	783
Db	706	AGGGAACCTGCAAGGTGACTCTGAGGGGGCCCTGCTGTGTGAGGAAAGCGGCGGCTGG	765
QY	784	TTCCAGGACAGGATCAACGACTTTTGGGTTTGGCTGTGACGAGAAACCGCCCTGGAGTT	843
Db	766	TTCCAGGACAGGATCAACGACTTTTGGGTTTGGCTGTGACGAGAAACCGCCCTGGAGTT	825
QY	844	TTCACTGCTGTGGCTTACTATAGGCAATGAGTACGAGAGCAGGTGATGGGTTTCAAGCCT	903
Db	826	TTCACTGCTGTGGCTTACTATAGGCAATGAGTACGAGAGCAGGTGATGGGTTTCAAGCCT	885
QY	904	GGGCGTGCCTTTCCACCCAGGCCCAAGAAACCCAGTCAAGT	945
Db	886	GGGCGTGCCTTTCCACCCAGGCCCAAGAAACCCAGTCAAGT	927

```

RESULT 4
US-10-101-510-447
: Sequence 447, Application US/10101510
: Publication No. US20030148295A1
GENERAL INFORMATION:
APPLICANT: WANG, JACKSON
APPLICANT: WANG, YIXIN
TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
FILE REFERENCE: 15117.0012
CURRENT APPLICATION NUMBER: US/10/101,510
CURRENT FILING DATE: 2002-03-20
PRIOR APPLICATION NUMBER: 60/276,947
PRIOR FILING DATE: 2001-03-20
NUMBER OF SEQ ID NOS: 805
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 447
LENGTH: 3382
TYPE: DNA
ORGANISM: Homo sapiens
US-10-101-510-447

```

[illegible]

QY	121	CCCCGCACTGCGGGGGGCCCTGAGCCCTCGGCCCGCATCGCGGGGGCTAAACGGCCAG	180
Db	332	GCTCCCTCGCGGTG-----GCCCCCAAGACGCACTCACAGGTGGCAGCATGTCAGTC	385
QY	181	CCGGGCACTTGACCTTGGCAGATGAGCCCTGCAACCATGAGGTGGCAATCTGCGGGGC	240
Db	386	GCGGGTCAGTGGCCCTTGCAAGGTGAGCATCACTATGAAGGCGTCCATGATGTGTGTGGC	445
QY	241	TTCCTCATGCCCCCTCTGGTCTCTCCGCTGTCTACTGTATTATACGAATGGGAGC	300
Db	446	TCTTCGTGTGTGACAGTGGGTCTGTCACTGTCTACTGCTTCCACGCA-----	498
QY	301	TTGAGCCCGCGGCGCAGTGGTCCGTACTGTGTGGGCTGTGACTCCAGAGACGGCCCTG	360
Db	499	--GCACCAAGAGAGAGCCTATGAGGTCAAGTGGGGGCCACACGATGACTCTTACTTCC	556
QY	361	GACGGCGGCACACCGCGCGAGTGGCCGCATGTGTGTCCGGCGAACTACAGCCAAATG	420
Db	557	GAGGACCCCAAGGTGCACACCCCTTAAAGACATCCCCACCCCACTACCTCCACAGAG	616
QY	421	GAGCTGGAGCGCGACCTGGCCCTGTGGCTGTGGCTCTCACCCGCGACCTGTGGCCCGCC	480
Db	617	GGCTCCAGGGCGCATTTGACATCTCTTCAACTACAGACACCATCACTTCTCCGCTAC	676
QY	481	GTVGGGCTGTCTGCTCCGCGCCCGCGACTTCACACCGCTTGTGCAAGGCAACCGCTGTGG	540
Db	677	ATCGGGCCATCTGCTCTCCCTCGAGCGCAAGCGCTCTTCCCAAGGGCTCTCACTGACAT	736
QY	541	GCCACCGGCTGGGGAGACCTCCAGAGGCAATCTTGTGCTCTCCCTGTGGGTCTACAG	600
Db	737	GTCATCTGGCTGGGGTCAATGTGGCCCCCTCAGTGAAGCTCTTGAGGCCCAACCACTGAG	796
QY	601	GAAATGAGAGCTAAAGCTGTGTGGCGAGGCCACCTGTCAATGTCTTACAGCGACCGCGT	660
Db	797	CAATTCAGAGTGCCTCTGATTCAGTCGTGAGACGTGTATCTGCTGTACATATGAGCGCC	856
QY	661	CCCTTCACTCACTCTCCAGATATTGCCAGGAGTGTGTGTGCTGACTCCAGAGGGC	720
Db	857	AAGCTGAGGAGCGGCACTTTGTTCAGAAGGACATGTGTGTGTGCTATGTGGAAGGG	916
QY	721	CGCAGGAGACCTGCCAGGCTGACTCTGGGGGGGCCCTGTGTGTGTAGAGGAAGGGCGCC	780
Db	917	GGCAAGGACCGCTGCCAGGTGACTCTGGGGGCCCACTCTCTGCGCTGTGTGAAGGTTC	976
QY	781	TGCTTCAGGACGAGATATCAGACTTTTGGATTGGCTGTGGAAGAAACCGGCTTGA	840
Db	977	TGTACTCTGACGGGCAATTGTGAGCTGTGGGAGATCTGTGTGGGGCCGCAACGACTGTGT	1036
QY	841	GTATTCACTGTGTGCTTACCTATGAGGACATGATACGGAGACGAGTGTGTGTCAAG	900
Db	1037	GTTGACACTCTGGGCTTCAGCTATGCTCTCTGTGATCCAAAGCAGGTGACGAATCTCAG	1096
QY	901	CTGTGGGCTGTCTTTCCACCCAG	924
Db	1097	CTCTGTGTGTGCCCAAAACCCAG	1120

```

RESULT 5
US-10-176-847-85
: Sequence 85, Application US/10176847
: Publication No. US2003068636A1
: GENERAL INFORMATION:
: APPLICANT: Velby, Petter Ole
: TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
: TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
: TITLE OF INVENTION: AND OVARIAN CANCER
: FILE REFERENCE: MRI-039
: CURRENT APPLICATION NUMBER: US/10/176,847
: CURRENT FILING DATE: 2002-06-21
: NUMBER OF SEQ. ID NOS: 112
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 85

```


LENGTH: 1733
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-176-847-85

Query Match 20.9%; Score 230.8; DB 15; Length 1733;
 Best Local Similarity 54.9%; Pred. No. 1.7e-52;
 Matches 507; Conservative 0; Mismatches 402; Indels 15; Gaps 2;

1 GGGCCCTTGTCTCTGGGCGCATGGCCAGAGGGGGTCTGGGGCCCTGGGCGAGCTGGGGCT 60
 81 GGGCCCTTGTCTCTGGGCGCATGGCCAGAGGGGGTCTGGGGCCCTGGGCGAGCTGGGGCT 140
 61 GTGGCCAAATTCCTACTCTACTACTACTACTACTACTACTACTACTACTACTACTACTACT 120
 141 GTGGCCAAATTCCTACTCTACTACTACTACTACTACTACTACTACTACTACTACTACTACT 200
 121 CCCCCGTAATGCGGGCGCCCTGAGCTCTGCGCCCGCATGCTGGGGGCTCAAAACGCGAG 180
 201 GCTCCCTGGCGGTGTG-----GCCCCCAAGCAGCAGCATCAGAGTGGCAGAGTGCAGTTC 254
 181 CCGGGCAACTGGGCGCTTGGCAGATGAGCGCTGACCACTGAGAGTGGCCATCTGCGGGGCG 240
 255 GCGGTCAGTGGCGCTTGGCAGATGAGCGCTGACCACTGAGAGTGGCCATCTGCGGGGCG 314
 241 TCCCTCATGCGCCCTCTGGGCTCTCTCCGCTGCTCACTGTTTCATGACGAAATGGAGCG 300
 315 TCTCTCGTGTGAGCAGATGGGGTGTCTGAGCTGCTCACTGTTTCAGAGGA----- 367
 301 TTGGAGCCCGGCGCGGAGTGGTCTGCTGCTGGGCGTCACTCCAGAGAGGGGCGCTG 360
 368 --GACACCAAGAGAGCTATGAGGTCAAGCTGGGGGCGCCACAGCTGATCTCTACTCC 425
 361 GACGCGCGGCGCACCGCGCGAGTGGCGCATGCGTGGCGCGCCCACTAGAGCCAGATG 420
 426 GAGGAGCGCAAGTGAAGACCTGAAGAGCATATCCCGACCCAGCTACCTCCAGAG 485
 421 GAGCTGGCGCGCGACCTGGCCCTGCTGGCGCTGAGCCGCGCAGCGCTGGGCGCCCGCC 480
 486 GAGCTCCAGGGGAGCATTTGCACTCTTCAACTCAGAGCAAGCCATCACTTCCCGGTAC 545
 481 GTGGGCTGTGTCTGCTGGCGCGCGCTCAACCGCTTGTGACAGGCAACGCTGTGG 540
 546 ATCGGGCCCATCTGCTCTCTGCGAGCAAGCGCTCTCTCCCAAGGCGCTCCACTGCACT 605
 541 GCGACCGGCTGGGAGAGGTCCAGAGGAGATCCTCTGCGCTCTCCCGTGGGTGTACAG 600
 606 GTCACTGGCTGGGATCATGTGGCCCTCTCAGTGAGCTCTTGAAGCCCAAGCACTGAG 665
 601 GAAGTGAAGCTAAGGCTGCTGGCGAGGCGCACTGTCAATGTCTTACAGCCAGCCGCT 660
 666 CAACCTGAGGTGCTCTGATCAGTGTGAGAGGTAACTGCTGTACAAATGACGCC 725
 661 CCGTTCAACTCACTCTCAAGATATTGCCAGAGAGTGTGTGTGCTGCTGCTACCAAGAGGC 720
 726 AAGCTTGAAGAGCGCACTTTGTCCAGAGAGCAATGATGTGTGCTGCTGTATGTGAGAGG 785
 721 CGCAGAGACACTGTGCGAGGATGACTGTGGGGGCGCCCTGATGTGAGAGAGGCGCGCG 780
 846 TGGTACTGAGCGGGCATTTGTGAGCTGGGGAAGATGCTGTGGGGGCGCGCAAGGCTGT 905
 786 GGCAGAGAGCGCTTGCAGAGGTACTCTGGGGGCGCACTCTCTGCGCTGTGAGAGGCTTC 845
 781 TGGTTCCAGAGAGGAATCAACAGCTTTGGGTTTGGCTGTGAGCGAGAAACCGCCCTGGA 840
 841 GTTTTCACTGCTGTGGCTACTATGAGGATGAGATACGAGAGAGAGTATGGTTCAAG 900
 906 GTGTAACACTTGGGCTTCCAGCTATGCTCTGTGATCAAAAGCAAGGTGACAGAACTCCAG 965
 901 CCGGGGCTGCTTCCAGCCAG 924
 966 CCGCTGTGTGTGCCCAAAACCGAG 989

RESULT 6
 US-10-311-591A-5
 ; Sequence 5, Application US/10311591A
 ; Publication No. US20040141962A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, Yonghong
 ; TITLE OF INVENTION: Regulation of Human Prostatin-Like
 ; FILE OF INVENTION: Serine Protease
 ; FILE REFERENCE: 004974.00929
 ; CURRENT APPLICATION NUMBER: US/10/311,591A
 ; PRIOR FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 60/213,474
 ; PRIOR FILING DATE: 2000-06-23
 ; PRIOR APPLICATION NUMBER: US 60/277,612
 ; PRIOR FILING DATE: 2001-03-22
 ; NUMBER OF SEQ ID NOS: 6
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 5
 ; LENGTH: 944
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-311-591A-5

Query Match 20.5%; Score 226.4; DB 17; Length 944;
 Best Local Similarity 57.7%; Pred. No. 2.5e-51;
 Matches 448; Conservative 0; Mismatches 316; Indels 12; Gaps 2;

124 CCGTAATGGGGCGCCCTGAGCCCTGCGCCGCAATCGTGGGGGCTCAAGCGCGACCG 183
 43 CTGGCTGGGGGAGCGCCCGCATGCTGAGATGTTGGAGGCGGAAATGGCGGAGAC 102
 184 GGCACCTGGGCTTGGCAAGTGAAGCTGACCATGAGAGTGGCCATCTGGGGGCTCC 243
 103 GGAAGTGGCCCTGGCAGGCGAGCATTCAGAGATGTGGGCGACAGCTGTGGGGGCTCG 162
 244 CTCAATGCGCCCTCTCTGAGTCTCTCTGCTGCTCACTGTTTCATGACGAATGGAGCTTG 303
 163 CTCAATGCGCCCGCATGAGTGTGCTGACAGCGCGCATGCTTCCAGAGG-----CG 213
 304 GAGCCCGGCGGAGTGTGCTGCTGCTGAGGCGTCACTCCAGAGAGGGGCGCCCTGAGC 363
 214 GCACTGCGAGTGTGATCCGCGTGGCTGGGGGCGCTGAGGCTCTGAGGCTCAACTGCGCC 273
 364 GCGCGGACACCGCGGAGTGGCGCGCATCTGTGTCGCGGCAACTACAGCAAGTGGAG 423
 274 CGCAGGCTCTGAGTGGCGCGGCTGCAAGGAGTGTGCTGCGCCGAGCTACCTCGAGAGAG 333
 424 CTGGGCGCGACCTGGCCCTGCTGCGCTGAGCTCAACCGCAGCTGGGCGCGCGCTG 483
 334 GCGCGCGGCGACCTGGCACTGCTGAGCTGCGTGGCGCCGAGTGGCCCTGAGGCGCTG 393
 484 TGGCTGTGAGTGGCGCGCGCGCGCTCAACCGCTTGTGCAAGGAGCGCGCTGAGGCG 543
 394 CAACCGCTGCTGCG 453
 544 ACCGCTGGGAGAGCTTCCAGAGGAGCATCTGCTCTCTCCCTGGGCTGTACAGAGA 603
 454 ACCGCTGGGAGAGCTTCCAGAGGAGCATCTGCTCTCTCCCTGGGCTGTACAGAGA 513
 604 GTGAGCTAAGGCTGTGGGCGAGGCGACCTGTCAATGTCTTACAGCGACGCGGCTGCC 663
 514 GTAAGGCTGCGCTGTGGGAGCTGTGGGCGACCTGTCAAGGAGGCGCGAG 573
 664 TTCAACCTCACTTCCAGATAT---TGCAGAGAGATGTGTGCTGCTGCTACCAAGAGGC 720
 574 GTGCCCGAGGCTGAGCGATTTGTGCTGCTGAGGAGTCTGTGTGCGGCTTACCCCAAGGC 633
 721 CGCAGAGACACTTGGCAGAGTGAATCTGGGGGCGCCCTGTGTGTGAGAGAGGCGCGCG 780
 634 CACAAGAGCGCTGCGCAGAGTGAATCTGGGGGAGCTTGAAGCTGCTCAAGTGTGGAGC 693
 781 TGGTTCCAGAGGAATCAACAGCTTTGGGTTTGGCTGTGAGCGAGAAACCGCCCTGGA 840

Db	694	TGGTCTCTGGTGGGCGTGGTAGCTGGGGCAAGGTTGTGCCCTGCCAACCGTCCAGCG	753
Dy	841	GTTTTCACGTCTGTGGCTACCTATGAGGCAAGATACGAGACAGTGATGGTTTC	896
Db	754	GTGTACCAACAGTGTGGCCACATATAGCCCTGGATTCCAGGCTCGCGTACAGATTAC	809

```

RESULT 7
US-10-451-168-46
Sequence 46, Application US/10451168
Publication No. US20040091969A1
GENERAL INFORMATION:
APPLICANT: SMITHKLINE BEECHAM CORPORATION
APPLICANT: SMITHKLINE BEECHAM P.L.C.
APPLICANT: GLAXO GROUP LIMITED
TITLE OF INVENTION: NOVEL COMPOUNDS
FILE REFERENCE: GPE0039
CURRENT APPLICATION NUMBER: US/10/451,168
CURRENT FILING DATE: 2003-11-12
PRIORITY FILING DATE: 2000-12-17
PRIORITY FILING DATE: 2000-12-17
PRIORITY FILING DATE: 2000-12-17
PRIORITY FILING DATE: 2000-12-19
PRIORITY FILING DATE: 2000-12-20
PRIORITY FILING DATE: 2000-12-20
PRIORITY FILING DATE: 2001-01-09
PRIORITY FILING DATE: 2001-01-09
PRIORITY FILING DATE: 2001-01-30
PRIORITY FILING DATE: 2001-02-06
PRIORITY FILING DATE: 2001-02-06
PRIORITY FILING DATE: 2001-03-19
PRIORITY FILING DATE: 2001-03-19
PRIORITY FILING DATE: 2001-04-04
PRIORITY FILING DATE: 2002-06-28
PRIORITY FILING DATE: 2002-06-28
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 46
LENGTH: 843
TYPE: DNA
ORGANISM: Homo sapiens
US-10-451-168-46

```

Query Match	20.5%;	Score 225.6;	DB 17;	Length 843;
Best Local Similarity	58.0%;	Pred. No. 4.1e-51;		
Matches 443; Conservative	0;	Mismatches 309;	Indels 12;	Gaps 2

QY	123	CTGCGGGGCGCCCTGAGACCTCGGGCCCGAGATCGTGGGGGGCTCAAAACGCGACCGGGGCAC	188
Db	81	CTTCGGGGCAGCCCCCGCATCTCCAGTCCGAGTCGTTGGGGGGCGGGATGCGCGGGACGGAGA	140
QY	189	CTGCGCTTTGGCAAGTAGAGCGCTGCACATAGAGAGTGGCCACATCTGCGGGGGCTCTCTCAT	248
Db	141	GTGGCGGTGGCAGCGGAGCATCCAGCATCTGTGGGGCACAAGCTGTGCGGGGGGTGGCTCAT	200
QY	249	CGCCCCCTCTGGGGTCTCTCGCTGCTCACTGTTTCATGACGAATGGAGCGTTGAGCC	308
Db	201	CGCCCCCAGTGGGTGCTGACAGCGCGCGACACTGCTTCCACAGA-----GGGCACT	251
QY	309	CGCGGCGCAGTGTGCTGGTACTGCTGGGGGTGACATCTCCAGACGGGGCCCTTGACCGGCGC	368
Db	252	GCCAGCTGAGTACCGCGTGGCGGCTCTGGGGGCGCTGCGTCTGGGGCTTCACTTCGCCCTCCAC	311
QY	369	GCACACCGCGGAGTAGGAGCGCGCATGTGGTGTGCGGCCAATACAGCCAAATGAGAGCTGGG	428
Db	312	GCTCTCGATGCCCTGTGCGACGGGATCTGTGCCCCCGGACTACCTCCAGAGACGGGGGCCG	371
QY	429	CGCGCAGCTGGGCGCTGCTGCGGCTGAGCTCAACCGGCCAGCGCTGGAGCCCGCGGTGTGGCC	488
Db	372	CGGCGACTTGGAAGTCTGTGCACTGCGCTGTCGCGCCGAGTCCCTTGAGCGCTGTGCGTCAAC	431

QY	489	TGTCGACGTGCCCCGCGCTTCAACGCGTTGCTGACACGCAACGCGCTGCTGGAGCCACCG	548
Db	432	CGTTCGCTGCCCCGTGCCCCGCGCCCGCCCGCCCGGACACATATCCGGGTACCGG	491
QY	549	CTGGGGAGACCTCCAGAGAGCGAGATCTCTGCTCTCCCTTGAGTGTCTACAGAAATGGA	608
Db	492	CTGGGGGAGCGCTCCGCGCCAGAGATGCCCTCCCAAGATGGGACACGCTAACAGAGTAAG	551
QY	609	GCTAAGGCTGCTGGGCGAGGCACTGTTCATGTCTCTACAGCCACGCGGTCTTCAA	668
Db	552	GGTCCGCTGCTGGATCTGGCGACCTGGGACCGGCTTCAACAGTGGGCGGACGTGCC	611
QY	669	CCTCACTCTCAAGATAT--TGCCAGGGAGATGCTGTGTGCTGAGCTTACCAGAGGCGCGAG	725
Db	612	CGAGGCTGAGCGCATTTGTGTGCTGCTGGAGATGTGTGTGCGGCTATCCCAAGGCTACAA	671
QY	726	GGAACACTGACAGAGGTGACTCTGGGGGGGCCCTGTGCTGTGAGGAAGCGCGCTGATTT	785
Db	672	GGAAGCTGCGCAGAGGTGATTTCTGGGGGAACTTGACCTGCACTGCAAGTCTGGAGCTGGGT	731
QY	786	CCAGGCGAGGAATCACCAAGCTTTGGGTTTGGCTGTGAGCGAGAAACCGCCCTGGAGTTTT	845
Db	732	CTTGTTGGGCTGTGGAGACTGGGGGCAAGGGTGTGTCCTCGCCCAACCTGTCAGAGGCTTA	791
QY	846	CACGTGCTGTGGCTACTCTATGAGGATATGAGTACGGAGCAGAGTGA	889
Db	792	CACCAGTGTGGCCACATATAGCCCTCGAATTTAGGCTGCGGTCA	835

```

1  RESULT 8
2  US-10-451-168-47
3  Sequence 47, Application US/10451168
4  Publication No. US20040091969A1
5  GENERAL INFORMATION:
6  APPLICANT: SMITHKLINE BEECHAM CORPORATION
7  APPLICANT: SMITHKLINE BEECHAM P.I.C.
8  TITLE OF INVENTION: NOVEL COMPOUNDS
9  FILE REFERENCE: GPE0039
10 CURRENT APPLICATION NUMBER: US/10/451,168
11 CURRENT FILING DATE: 2003-11-12
12 PRIOR APPLICATION NUMBER: PCT/US01/49232
13 PRIOR FILING DATE: 2000-12-17
14 PRIOR APPLICATION NUMBER: 60/256,710
15 PRIOR FILING DATE: 2000-12-19
16 PRIOR APPLICATION NUMBER: 60/257,048
17 PRIOR FILING DATE: 2000-12-20
18 PRIOR APPLICATION NUMBER: 60/260,482
19 PRIOR FILING DATE: 2001-01-09
20 PRIOR APPLICATION NUMBER: 60/264,922
21 PRIOR FILING DATE: 2001-01-30
22 PRIOR APPLICATION NUMBER: 60/266,797
23 PRIOR FILING DATE: 2001-02-06
24 PRIOR APPLICATION NUMBER: 60/276,988
25 PRIOR FILING DATE: 2001-03-19
26 PRIOR APPLICATION NUMBER: 60/281,535
27 PRIOR FILING DATE: 2001-04-04
28 PRIOR APPLICATION NUMBER: 60/289,622
29 PRIOR FILING DATE: 2002-06-28
30 NUMBER OF SEQ ID NOS: 110
31 SOFTWARE: FastSeq for Windows Version 4.0.0
32 SEQ ID NO 47
33 LENGTH: 849
34 TYPE: DNA
35 ORGANISM: Homo sapiens
36 US-10-451-168-47

```

Query Match	20.5%;	Score 225.6;	DB 17;	Length 849;
Best Local Similarity	58.0%;	Pred. No. 4,1e-51;		
Matches 443;	Conservative 0;	Mismatches 309;	Indels 12;	Gaps 2

```

Db      87  CTGGGGGAGCCCGGAGATGTCAGATCGATGTTGGGGGCGGGAGTGGCCGGAGACGAGAGA 146
Qy      189  CTGGGCTTTGGGAATGAGGCTTGGCAACATGAGAGTGGCCACATCTGGGGGGGCTCCCTCAT 248
Db      147  GTGGGCGTGGAGCGAGCATCGAGCATCGTGGGCAACATGAGGGGGGTGCTCAT 206
Qy      249  CGGCCCCCTCTCTCTCGGCTGCTCACTGTTTCATGAGGAGGAGGAGTGGAGCC 308
Db      207  CGCCCCCAGTGGGTGTGAGAGGGGGCACTGCTTCCCGAGGAG-----GGGCACT 257
Qy      309  CGGCGCGAGTGGGTGCTGCTGGGGGTGCACTCCAGGAGCGGGCCCTTGAAGCGCGC 368
Db      258  GCCAGCTGAGTACCGCGTGGCGCTGGGGGGCGCTCGCTGGGGCTTCACTGCGCCCGGAC 317
Qy      369  GCAACCCCGGAGTGGCGCGGCACTGAGTGGGGCGGCAACGAGGAGGAGGAGTGGG 428
Db      318  GCTCTGGGTGCGCGTGGAGCGGGGTGCTGGGGCGGCACTTCCGAGGAGCGGGGGCCG 377
Qy      429  CGCGGACCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 488
Db      378  CGGAGACTTGGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 437
Qy      489  TGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 548
Db      438  CGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 497
Qy      549  CTGGGAGAGCTTCCAGAGGAGAGATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 608
Db      498  CTGGGAGAGCTTCCAGAGGAGAGATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 557
Qy      609  GCTAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 668
Db      558  GGTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 617
Qy      669  CCTGACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 725
Db      618  CCAAGGCTGAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 677
Qy      726  GGAACCTTGGAGAGGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 785
Db      678  GAGAGCTTGGAGAGGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 737
Qy      786  CCAGGAGAGAGTCAACCACTTGGGTTTGGCTGTGAGAGGAGGAGGAGGAGGAGGAGGAGG 845
Db      738  CTTGGTGGGCGTGGGAGCTGGGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 797
Qy      846  CACTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 889
Db      798  CACCACTGTGGGAGCATATTAAGCCCTGATTCAGGCTGCGCTCA 841

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RESULT 9

```

US-10-051-874-25
; Sequence 25, Application US/10051874
; Publication No. US2004000557A1

```

GENERAL INFORMATION:

```

; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Alsbrook II, John P
; APPLICANT: Colman, Steven D
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Boldog, Ferenc
; APPLICANT: Vernet, Corine AM
; APPLICANT: Li, Li
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Casman, Steacie J
; APPLICANT: Guo, Xiaojia Sasha
; APPLICANT: Edinger, Shlomit R
; APPLICANT: MacDougall, John R
; APPLICANT: Malysankar, Uriel M
; APPLICANT: Patnirajan, Meera
; APPLICANT: Shinkens, Richard A
; APPLICANT: Pena, Carol EA

```

```

; APPLICANT: Tchernev, Velizar T
; APPLICANT: Zerkusen, Bryan D
; APPLICANT: Miller, Isabelle
; APPLICANT: Miller, Charles R
; APPLICANT: Lepley, Denise M
; APPLICANT: Smithson, Glenda
; APPLICANT: Baumgartner, Jason C
; APPLICANT: Herrman, John L
; APPLICANT: Peyman, John A
; APPLICANT: Gorman, Linda
; APPLICANT: Mezes, Peter D
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Gerlach, Valerie
; APPLICANT: Grose, William M
; APPLICANT: Liu, Xiaohong
; APPLICANT: Ellerman, Karen
; APPLICANT: Rothenberg, Mark
; APPLICANT: Stone, David J
; APPLICANT: Burgess, Catherine E
; TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF
; TITLE OF INVENTION: USING THE SAME
; FILE REFERENCE: 21402-245
; CURRENT APPLICATION NUMBER: US/10/051,874
; PRIOR APPLICATION NUMBER: 60/268,595
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: 60/325,306
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: 60/262,587
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: 60/272,409
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/262,454
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: 60/276,777
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/291,672
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: 60/330,336
; PRIOR FILING DATE: 2001-10-18
; PRIOR APPLICATION NUMBER: 60/265,530
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/261,376
; PRIOR FILING DATE: 2001-01-16
; NUMBER OF SEQ ID NOS: 269
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 1020
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-051-874-25

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Query Match 20.5%; Score 225.6; DB 16; Length 1020;
Best Local Similarity 58.0%; Pred. No. 4.2e-51;
Matches 443; Conservative 0; Mismatches 309; Indels 12; Gaps 2;

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Qy      129  CTGGGGGAGCCCTGAGCCCTGAGCCGATGATGAGGGGGCTCAACAGCGAGCCGAGAC 188
Db      171  CTGGGGGAGCCCGGAGATGTCAGATCGATGATGAGGGGGCGGAGATGGCCGGAGAGCA 230
Qy      189  CTGGGCTTTGGGAATGAGGCTTGGCAACATGAGAGTGGGCAACATCTGGGGGGGCTCCCTCAT 248
Db      231  GTGGGCGTGGAGGAGGAGCATCGAGCATGAGGAGCAACGATGAGGGGGGCTCCCTCAT 290
Qy      249  CGCCCCCTCTCTCTCTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 308
Db      291  CGCCCCCAGTGGGTGTGAGAGGGGGCACTGCTTCCCGAGGAG-----GGGCACT 341
Qy      309  CGCGGCGAGTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 368
Db      342  GCCAGCTGAGTACCGCGGTGGCGCTGGGGGCGTGGGTGAGGCTTCACTGCGCCCGGAC 401

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APPLICANT: Qi, Jenson
TITLE OF INVENTION: DNA Encoding the Human Serine
FILE REFERENCE: ORT-1031
CURRENT APPLICATION NUMBER: US/10/041,400A
CURRENT FILING DATE: 2002-01-08
PRIOR APPLICATION NUMBER: US/09/387,375
PRIOR FILING DATE: 1999-08-31
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 1613
TYPE: DNA
ORGANISM: Homo sapiens
US-10-041-400A-1
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Query Match 20.3%; Score 224; DB 14; Length 1613;
Best Local Similarity 57.9%; Pred. No. 1.2e-50;
Matches 442; Conservative 0; Mismatches 310; Indels 12; Gaps 2;
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QY 129 CTGGGGGCGCCCTGAGCCCTGGCCCGGATGTGGGGGGCTCAACCGCGACGCGGAC 188
DB 149 CTGGGGGAGCCCGCATGTCAAGTCGATGTGGGGGGCGGGATGGCCGGAGAGAGA 208
QY 189 CTGGCTTTGGCAATGAGCTTGACCAATGAGAGTGGCCACATCTGGGGGGCTCCCTCAT 248
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QY 369 GCAACACCGCCAGAGTGGCGCCCATGTGATGCGCGCCCAACTACAGCCAAATGAGTGGG 428
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DB 560 CTGGGGGAGCTCTCGCCCGAGAGAGTGCCTCCAGAGTGGGAGACCGGCTAAGAGAGTAA 619
QY 609 GCTAAGGTGTGGGCGAGGCGCACTGTCAATGTCTTACAGCCAGCCCGGTCTTCAA 668
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QY 669 CCTCACTCTCAGAGAT---TGCCAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 725
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DB 800 CCGTGTGGGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 859
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DB 860 CACGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 903
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RESULT 12
US-10-041-264A-1
Sequence 1, Application US/10041264A
Publication No. US20020142446A1
GENERAL INFORMATION:
APPLICANT: Darrow, Andrew
APPLICANT: Andrade-Gordon, Patricia
APPLICANT: Qi, Jenson
TITLE OF INVENTION: DNA Encoding the Human Serine
FILE REFERENCE: ORT-1031
CURRENT APPLICATION NUMBER: US/10/041,264A
CURRENT FILING DATE: 2002-01-08
PRIOR APPLICATION NUMBER: US/09/387,375
PRIOR FILING DATE: 1999-08-31
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 1613
TYPE: DNA
ORGANISM: Homo sapiens
US-10-041-264A-1
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Query Match 20.3%; Score 224; DB 14; Length 1613;
Best Local Similarity 57.9%; Pred. No. 1.2e-50;
Matches 442; Conservative 0; Mismatches 310; Indels 12; Gaps 2;
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QY 129 CTGGGGGCGCCCTGAGCCCTGGCCCGGATGTGGGGGGCTCAACCGCGACGCGGAC 188
DB 149 CTGGGGGAGCCCGCATGTCAAGTCGATGTGGGGGGCGGGATGGCCGGAGAGAGA 208
QY 189 CTGGCTTTGGCAATGAGCTTGACCAATGAGAGTGGCCACATCTGGGGGGCTCCCTCAT 248
DB 209 GTGGCCGTGGGAGCGAGCATCCAGCATCTGGGGGACACGTGTGGGGGGGTGGCTCAT 268
QY 249 CGCCCTCTCTGGTCTCTCCGCTGCTCACTGTTTATGACGAATGGAGAGTTGGAGCC 308
DB 269 CGCCCCAGTGGGTGTGCTGACAGCGGCGCACTGCTTCCCGAGGA-----GGGCACT 319
QY 309 CGCGCGGAGTGTGTGCTGAGTGGGGGTGACATCCCGAGAGAGCGGCCCTGAGAGCGGCG 368
DB 320 GCCAGCTAGTACCGCGTGGCGCTGGGGGGCGCTGCTGTGGAGCTTCACCTGGCCCGCAC 379
QY 369 GCAACACCGCCAGAGTGGCGCCCATGTGATGCGCGCCCAACTACAGCCAAATGAGTGGG 428
DB 380 GCTCTGGTGGCCCGTGGAGAGGAGTGTGCTGCTGCCCCGGAGCTAATCCAGAGAGGGGCCG 439
QY 429 CGCGGACCTGGCCCTGCTGCGCTTGGCTCAACCGCCAGCCTGGGGCCCGCGGTGGCC 488
DB 440 CGGGGACCTGGCAGCTGCTGCACTGCGCGCGCTGCGCGCTGCGCTGCGCTGCGCAAC 499
QY 489 TGTGCGCTGCGCGCGCGCTGCAACCGCTTGTGTGAGAGCGGCAACCGCTGGGGCCACCG 548
DB 500 GGTCTGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 559
QY 549 CTGGGAGACGTCCAGAGAGAGAGATCTCTGCTCTCCCTGGGTGCTTACAGAGAGTGA 608
DB 560 CTGGGGGAGCTCTCGCCCGAGAGAGTGCCTCCAGAGTGGGAGACCGGCTAAGAGAGTAA 619
QY 609 GCTAAGGTGTGGGCGAGGCGCACTGTCAATGTCTTACAGCCAGCCCGGTCTTCAA 668
DB 620 GGTGCGCTGTGAGCTGCGGCACTGCGGCACTGCGGCTTACAGCTGGGCGCGGAGTCC 679
QY 669 CCTCACTCTCAGAGAT---TGCCAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 725
DB 680 CAGGCTAGCGCATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 739
QY 726 GGAACCTGCGAGGAGTGACTGTGGGGGGCCCTGTGTGTGTGTGTGTGTGTGTGTGTGT 785
DB 740 GGAACCTGCGAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 799
QY 786 CAGGCGAGGATCAACAGCTTTGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 845
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Db 800 CCGTGGGGGGGTGTAGAGCTGGGGCAAGGGTTGTGCGCTGCCAACCGTCCAGGGGTCTA 859
QY 846 CACTGCTGTGGCTACTATAGAGCATGATACGGAGCAGGTGA 889
Db 860 CACGAGTGTGGCCACATATAGCCCTTGATTCAGGCTCGGCTCA 903

RESULT 13
US-10-042-091A-1

/ Sequence 1, Application US/10042091A
/ Publication No. US20020142447A1
/ GENERAL INFORMATION:
/ APPLICANT: Darrow, Andrew
/ APPLICANT: Andrade-Gordon, Patricia
/ APPLICANT: Qi, Jensen
/ TITLE OF INVENTION: DNA Encoding the Human Serine
/ TITLE OF INVENTION: Protease E0S
/ FILE REFERENCE: ORT-1031
/ CURRENT APPLICATION NUMBER: US/10/042,091A
/ CURRENT FILING DATE: 2002-01-08
/ PRIOR APPLICATION NUMBER: US/09/387,375
/ PRIOR FILING DATE: 1999-08-31
/ NUMBER OF SEQ ID NOS: 9
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 1
/ LENGTH: 1613
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-042-091A-1

Query Match 20.3%; Score 224; DB 14; Length 1613;
Best Local Similarity 57.9%; Pred. No. 1,2e-50;
Matches 442; Conservative 0; Mismatches 310; Indels 12; Gaps 2;

QY 129 CTGCGGGGCGCCCTGAGCCCTCGGCGCATGCTGGGGGGCTCAACGCGCAGCGGGCAC 188
Db 149 CTGCGGGGCGAGCCCGCATGTCCAGTCCGTGGGGGGCGGGAGTGGCGGAGCGAGGA 208
QY 189 CTGGGCTTGGGCAAGTAGCGCTGCACATGAGAGGTGGCCCATGTGGGGGGCTCCCTCAT 248
Db 209 GTGGGCGTGGGCAAGGCAAGTCCAGATCTCTGGGGCAACGATGTGGGGGGGTGCTCAT 268
QY 249 CGGCCCCCTCGGAGTCTCTCCGCTGCTCACTGTTTCATGACGATGGAGCGTTGAGGCC 308
Db 269 CGGCCCCGAGTGGGTCTGACAGCGCGGACGCTTCCCAAGA-----GGCAGCT 319
QY 309 CGGGGCGAGTGTCCGTACTGTGGGCGTGACCTCCAGAGAGGGCCCTGGACGGCGC 368
Db 320 GCCAGCTGAGTACCGGTGTGGGCGCTGGGGGGCGCTGCGTGGGCTCCACCTCGCCCGCAC 379
QY 369 GCACACCCCGGAGTAGTGGCGGCATGTGTGGGCGGGCACTACAGCCAGATGGAGCTGGG 428
Db 380 GCTCTCGGTGGCCGTGCAAGGGTGTCTGCTGCCCCCGGACTACTCCAGAGAGCGGGCCG 439
QY 429 CGCGGACCTGGCCCTGCTGCGCTGACCTCACCCCGCAGCTGGAGCCCGCGGTGGGCC 488
Db 440 CGGCGACCTGGCACTGCTGAGCTGTGCGCCGGGAGCCCTGAGGCTCGGCTCAACC 499
QY 489 TGTTCCTGCTGGCCCGGCGGCTCACACCGCTTGTGACACGACCGCTGTGGGCGACCGG 548
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QY 549 CTGGGAGAGAGTTCAGAGAGCAGATCTGTGCTCTCCCTGGGCTCTACAGAGATGGA 608
Db 560 CTGGGGCAGGCTTCGCGCCAGAGATGCTCTCCAGAGTGGCCACCGCTACAGAGATTAAG 619
QY 609 GCTAAGGCTGTGGGAGAGGCCACCTGTCAATGTCTTCAAGCCAGCCCGGTCCCTTCA 668
Db 620 GGTGCGGCTGTGAGACTCGCGCACTGCGACGGGCTTACACAGTGGGCGGAGAGTGGC 679
QY 669 CTTCACTCTCCAGATAT---TGCAGAGGATGTGTGTGTGCTGTACCAAGAGGCGCGCAG 725
Db 680 CCAGGCTGAGCGCATTTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 739

QY 726 GGAACACTTCCAGAGGAGTACTTGGGGGGGCCCTGTGTGTGTGTGTGTGTGTGTGTGT 785
Db 740 GGAAGCTTCCAGAGGAGT 799
QY 786 CCAGGAGAGATTCACAGCTTTTGGGTTTGGCTGTGACGGAAGAACCGCCCTGAGATTTT 845
Db 800 CCGTGGGGCGT 859
QY 846 CACTGCTGTGGCTACTATAGAGCATGATACGGAGCAGGTGA 889
Db 860 CACGAGTGTGGCCACATATAGCCCTTGATTCAGGCTCGGCTCA 903

RESULT 14

US-09-948-094-1
/ Sequence 1, Application US/09948094
/ Patent No. US2002090625A1
/ GENERAL INFORMATION:
/ APPLICANT: The Brigham and Women's Hospital, Inc.
/ APPLICANT: Mok, Samuel
/ APPLICANT: Wong, Kwong-kwok
/ TITLE OF INVENTION: Methods of Detecting Cancer Based on Prostatin
/ FILE REFERENCE: 81994/282423
/ CURRENT APPLICATION NUMBER: US/09/948,094
/ CURRENT FILING DATE: 2001-09-07
/ NUMBER OF SEQ ID NOS: 4
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 1
/ LENGTH: 1834
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FRAGMENT:
/ NAME/KEY: CDS
/ LOCATION: (229)..(1260)
US-09-948-094-1

Query Match 20.1%; Score 221.2; DB 9; Length 1834;
Best Local Similarity 54.2%; Pred. No. 6.8e-50;
Matches 501; Conservative 0; Mismatches 408; Indels 15; Gaps 2;

QY 1 GGAGCCTTGTCTGTGGGCGCATGAGGCCAGAGGGGGTCTTGGGCGCTGGGAGCTGGGGGCT 60
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QY 61 GTGGCCAAATTGACATCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACT 120
Db 271 GTGGCCAAATTGACATCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACT 330
QY 121 CCGCGTACTGCGGGGCGCCTGAGCCCTGAGCCCGCATGTGGGGGCTCAACGCGCAG 180
Db 331 GGTCCCTGTGGGTGTG-----GCCCGCAAGACGATACAGGTGGCAGCGAGTGAAGTC 384
QY 181 CGGGGCACTGGCCTTGGCAAGTAGAGCTGACATGAGGAGTGGCCATCTGCGGGGCG 240
Db 385 GCGGTCAGTGGCCCTGGGAGGTGAGCATCACTTGAAGGGGTGCTCATGTGTGTGTGCG 444
QY 241 TCCCTCATGCGCCCTCCGAGGTCCCTGCGTCCGCTGCTCACTTGTTCATGACGATGGAAG 300
Db 445 TCTCTGTGTGTGAGAGTGGGT 497
QY 301 TTGAGCCCGCGCGAGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 360
Db 498 --GACACCAAGAGAGCTATAGAGGTCAAGTGGGGGGCCCAAGAGTACCTCTATCTCC 555
QY 361 GACGGGCGCAACCGCGGAGTGGCGCATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
Db 556 GAGAGCGCCAAAGTACAGCCCTGAAAGACATCATCCCAACCCGACCTACCTCCAGAG 615
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[illegible]

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US09-880-107-2214
: Sequence 2214, Application US/09880107
Patent No. US20020142981A1
GENERAL INFORMATION:
APPLICANT: Horne, Darci T.
APPLICANT: Vockley, Joseph G.
APPLICANT: Scherf, Iwe
APPLICANT: Gene Logic, Inc.
TITLE OR INVENTION: Gene Expression Profiles in Liver Cancer
FILE REFERENCE: 44921-5028-WO
CURRENT APPLICATION NUMBER: US/09/880,107
CURRENT FILING DATE: 2001-06-14
PRIOR APPLICATION NUMBER: US 60/211,379
PRIOR FILING DATE: 2000-06-14
PRIOR APPLICATION NUMBER: US 60/237,054
PRIOR FILING DATE: 2000-10-02
NUMBER OF SEQ ID NOS: 3950
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2214
LENGTH: 1834
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: Genbank Accession No. US20020142981A1 L41351
US-09-880-107-2214

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Query Match	20.1%;	Score 221.2;	DB 9;	Length 1834;
Best Local Similarity	54.2%;	Pred. NO. 6.8e-50;		
Matches 501; Conservative	0;	Mismatches 408;	Indels 15;	Gaps 2;

Oy	1	GGGCGCTTGTCTCTGGGCCCATGGCCGAGAAAGGGGGTCTTGGGGCTGTGGCAGCTGGGGGGCT	60
Db	211	GGGGCGCTTGTCTCTGGGCCCATGGCCGAGAAAGGGGGTCTTGGGGCTGTGGCAGCTGGGGGGCT	270
Oy	61	GTGGGCAATTCGAACTCACTACATCACTTTCGGGTGGGTGCGCGTCCGAGACCCGCTAGGGCG	120
Db	271	GTGGGCAATTCCTCTCTATCTTGGATTACCTCCGGTCCGGAGACAGAGAGGGGCGAGAA	330
Oy	121	CCCCCGTACTGGAGGCGCCCTTAGCGCCTTGGCCCGCATGTGTGGGGGGCTTCMAACGCGCAG	180

Db	331	gctccctgcgggtg-----gcccccaagcagcatcacaggtggcacagtcacgtc	384
QY	181	ccgggacacttgaccttgacatgagcttgacacatgagatggccacatctggggggc	240
Db	385	gccggtcagttgaccttgacaggtcagcatcacctatgaaagccctcattgtgtgctggc	444
QY	241	ttccctcatgcgccccctctgggtctctccgctgctcactgtttcattgacgaatgggacg	300
Db	445	tccttcgtgttgagcagtggtgtctctcagctgctcactgtcttcccacga-----	497
QY	301	ttgagcccgccgacgagtggtgtggtactgtgagcgctgacgtccagagccggccctg	360
Db	498	--gcacacaaaggaagcctatgaggtcagcttgaggggccacacgtatgactcttactcc	555
QY	361	gacgcgcgcacacccgcgacgtggccgcacatctgtggtgcgggcaactaacgcaaatg	420
Db	556	gaggaacgcamaagtcagacacccctgaagaacatattccccacccacgtacgtcacaag	615
QY	421	gagctggggccgcaccttgacctgctgtgccttgccgttcacccgcacgtgggccccgc	480
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QY	481	gtgtgacctgtgtgtccctgcgcccccgacctcacaccggttgtgtgacagggcaccgctgtgg	540
Db	676	atccggcccatctgtcccttcctgcagaccagagccctcttccccacggcccttcactgact	735
QY	541	gccacccgcttgaggagacgtccagaaagacagatctgtgcctctccccctgggtgctacg	600
Db	736	gtcactggtctgggtcatgtatggccccctcactatgagctctcctgaagcccaagccactggag	795
QY	601	gaagtgaagctaaagctgtgtggcgaggccactgtcaatgtctctaacgcagcccggt	660
Db	796	caactcgaggtgctctgtatcagtcgtgaagacggttaactgcctgtcaacatgagccgc	855
QY	661	cccttcaacctcactcttcagatatttgcacaggaatgctgtgtgtgctgtgacctgacccagagggc	720
Db	856	aagccttgagagccgcactttgtccaaagagacatgtgtgtgtgtgcctatgtgaaaggg	915
QY	721	cgacagggacacttgacaggggtgacttggggggggccccctggctgtgagaaaggcgccgc	780
Db	916	ggcaagagcgccttgacaggggtgacttggggggcccaactcttctgcctctgtgaaaggtctc	975
QY	781	tgtgtccagcaggaatcacacagcttttggtttgactgtgacaggaataaacccgacctga	840
Db	976	tgtgtaactgaaggacattgtgagcttgaggagaaatgcctgtggggcccgcaaacagccctggt	1035
QY	841	gttttcactgctgtggctactatgagggcatgattacggagacaggtgattgggtttcacag	900
Db	1036	gtgtaactcttgagccttcagctatgagcttccgtgattccaaagcaaggtgacagaattccag	1095
QY	901	ccctgggacctgaccttttccacccag	924
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 30, 2004, 08:42:57 ; Search time 19 Seconds
(without alignments)
970.025 Million cell updates/sec

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Perfect score: 1953
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	602	30.8	299	3	US-08-944-483-66
2	590	30.2	284	4	US-09-387-375-7
3	563	28.8	290	4	US-09-386-653A-7
4	557	28.5	316	4	US-09-387-375-9
5	550.5	28.2	319	4	US-09-386-642-12
6	550	28.2	328	4	US-09-386-642-11
7	544	27.9	317	4	US-09-386-629-7
8	544	27.9	317	4	US-09-907-794A-263
9	544	27.9	317	4	US-09-905-125A-263
10	540	27.6	317	4	US-09-902-775A-263
11	540	27.6	855	2	US-09-027-337-2
12	540	27.6	855	2	US-09-644-600-2
13	540	27.6	855	4	US-09-654-600A-2
14	534.5	27.4	314	3	US-09-008-271A-3
15	534.5	27.4	314	4	US-09-907-794A-257
16	534.5	27.4	314	4	US-09-905-125A-257
17	534.5	27.4	314	4	US-09-902-775A-257
18	533.5	27.3	314	4	US-09-023-942A-6
19	531	27.2	315	4	US-09-386-653A-9
20	529	27.1	285	4	US-09-023-942A-26
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22	506.5	25.9	902	4	US-09-644-600-10
23	506.5	25.9	902	4	US-09-654-600A-10
24	502	25.7	327	4	US-09-386-629-8
25	499	25.6	276	2	US-09-016-366A-15
26	499	25.6	276	2	US-08-978-404B-21
27	495	25.3	454	3	US-09-518-046-2

28	491.5	25.2	274	2	US-08-978-404B-5	Sequence 5, Appli
29	491	25.1	235	3	US-08-944-483-65	Sequence 65, Appli
30	490.5	25.1	376	4	US-09-820-002-2	Sequence 2, Appli
31	490.5	25.1	416	2	US-09-000-846-2	Sequence 2, Appli
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35	485.5	24.9	273	2	US-09-016-366A-19	Sequence 19, Appli
36	485.5	24.9	273	2	US-08-978-404B-14	Sequence 14, Appli
37	484.5	24.8	274	2	US-09-016-366A-21	Sequence 21, Appli
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42	482.5	24.7	244	4	US-09-601-318-7	Sequence 7, Appli
43	482.5	24.7	245	3	US-09-079-970A-6	Sequence 6, Appli
44	482.5	24.7	245	3	US-09-601-318-1	Sequence 1, Appli
45	479	24.5	256	2	US-09-027-337-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-08-944-483-66
Sequence 66, Application US/08944483
Patent No. 6232456
GENERAL INFORMATION:
APPLICANT: COHEN, MAURICE
APPLICANT: COLPITTS, TRACEY L.
APPLICANT: FRIEDMAN, PAULA N.
APPLICANT: GRANADOS, EDWARD N.
APPLICANT: KLAAS, MICHAEL R.
APPLICANT: RUSSELL, JOHN C.
APPLICANT: STEWART, KENT D.
APPLICANT: STROUPE, STEVEN D.
TITLE OF INVENTION: NOVEL SERINE PROTEASE REAGENTS
TITLE OF INVENTION: AND METHODS USEFUL FOR DETECTING AND TREATING DISEASES
NUMBER OF INVENTION: OF THE PROSTATE
NUMBER OF SEQUENCES: 76
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/944,483
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6183_US_01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX:
INFORMATION FOR SEQ ID NO: 66:
SEQUENCE CHARACTERISTICS:
LENGTH: 299 amino acids
TYPE: amino acid
STRANDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: No. 62324566
US-08-944-483-66

Query Match 30.8%; Score 602; DB 3; Length 299;
Best Local Similarity 41.4%; Pred. No. 2,4e-47;
Matches 127; Conservative 48; Mismatches 120; Indels 12; Gaps 5;

QY 47 IVGGNAPQPTWQVSIHHGGHICGSLIAPSWTISAHCMTNCTLEPAEMSTLIG 106
DB 1 ITGSSSAVAGQWQVSIITVEGVHVCSSIVSQWVISAHCPSSEHKE--AYEVKIG 57
QY 107 VHSQDGLDGAHRAVAIVPANVSQVELGADLALILRLASPAISGPAWPCIPRASR 166
DB 58 AHQDSESDPAKSTLKDIIPHSYLOESGQDIALILQSRPITFSYVITPICLPANAS 117
QY 167 FVHGTAQWATGWDVQADPLPLPWLOVELRLIGATCCQCLYSQGPNTLQILPGM 226
DB 118 FPMGLHCTVGMCHVAPSVSLITPKPIQCLEVPLISRETNCCLYNIDAKPEEPHFVQEDM 177
QY 227 LCAGYEGRRDTCQSGSGGGLVCEBGGRMFOAGITSPFCGRRNRPGVTAATYEWI 286
DB 178 VCAGYVEGGKDACQSGSGGLPCPVBESLWYLTGIVSWGDACGARNRPGVITLASSTASWI 237
QY 287 REQWSEBPAPPTQPKTQSD--CIHQTAFLDS-ARILRLPSHSIVGSGTKSLV 342
DB 238 QSKV--TELQPRVVPQTQESQPSNLCGSHLAFSSAPAQGLRPIFLPLGLALG---LL 292
QY 343 LPLWSPH 349
DB 293 SPWLSEH 299

RESULT 2

US-09-387-375-7
Sequence 7, Application US/09387375
Patent No. 6485957
GENERAL INFORMATION:
APPLICANT: Darrow, Andrew
APPLICANT: Andrade-Gordon, Patricia
TITLE OF INVENTION: DNA Encoding the Human Serine
FILE REFERENCE: ORT-1031
CURRENT APPLICATION NUMBER: US/09/387,375
CURRENT FILING DATE: 1999-08-31
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 7
LENGTH: 284
TYPE: PRT
ORGANISM: Homo sapiens
US-09-387-375-7

Query Match 30.2%; Score 590; DB 4; Length 284;
Best Local Similarity 46.3%; Pred. No. 2.8e-46;
Matches 119; Conservative 29; Mismatches 99; Indels 10; Gaps 3;

QY 38 CGEPBSARIVGGSNAQPTWQVSIHHGGHICGSLIAPSWTISAHCMTNCTLEP 97
DB 28 CGQPRMSSRTVGGDGDGEMWQASTQHPGAHVCGSLIAPQWVLTAAHCFPRAL-- 84
QY 98 AAEWSVLLGVHSQDGLPDGAHTRAVAIVPANVSQVELGADLALILRLASPAISGPAW 157
DB 85 PARYRRLGLARIGSISPRILSVPRVRLPPYSEBGAAGDIALILQSRPITFSYVITPIC 144
QY 158 VCLPRAHSHFVHGTAQWATGWDVQADPLPLPWLOVELRLIGATCCQCLY---SOP 213
DB 145 VCLPVGARPPPTGCKVTGMSLRPGVPLPWRPLQGVAVPLIDSRTCGLYHVGADVP 204
QY 214 GPPNLTLLIPGMLCAGYPRGRDTCQSGSGGLVCEBGGRMFOAGITSPFCGRRNR 273
DB 205 QARIR---VLPGLCAGYVQGHKDACQSGSGGLTLCQSSWVLYGVVSWGKCALPNRP 261

QY 274 GVFATATYEAATIRQOV 290
DB 262 GVTYVATYSPWLOARV 278

RESULT 3

US-09-386-653A-7
Sequence 7, Application US/09386653A
Patent No. 648564
GENERAL INFORMATION:
APPLICANT: Darrow, Andrew
APPLICANT: Andrade-Gordon, Patricia
TITLE OF INVENTION: DNA encoding the novel human serine
FILE REFERENCE: ORT-1032
CURRENT APPLICATION NUMBER: US/09/386,653A
CURRENT FILING DATE: 1999-08-31
NUMBER OF SEQ ID NOS: 11
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 7
LENGTH: 290
TYPE: PRT
ORGANISM: Homo sapiens
US-09-386-653A-7

Query Match 28.8%; Score 563; DB 4; Length 290;
Best Local Similarity 42.2%; Pred. No. 8.6e-44;
Matches 117; Conservative 32; Mismatches 114; Indels 14; Gaps 6;

QY 32 ARGPYCGRPEBSARIVGGSNAQPTWQVSIHHGGHICGSLIAPSWTISAHCMT 91
DB 20 AKATACGRPMANRVGGQDTQEGEMPWQVSIQRGSHHICGSLIAEQVLTAAHCF-- 77
QY 92 NGTLPEAEMSVLLGVHSQDGLPDGAHTRAVAIVPAN--YQVELGADLALILRLASPA 149
DB 78 RNTSETSL-YQVLTIGARQVQF--GPHAMAYARVQVESNPLXQGTASSADVALVEAPV 134
QY 150 SLGPAWPCVCLPRASRPFVHGTAQWATGWDVQADPLPLPWLOVELRLIGATCCQCL 209
DB 135 PFTNYILPCLPDSVITFETAMNCWVGSPSEBIDLPEPRILQKLVAFITDPKCNLL 194
QY 210 YSQGPNTLQILPG-MLCAGYPRGRDTCQSGSGGLVCEBGGRMFOAGITSPFCG 268
DB 195 YSKDTEFGYQPKTINKDMLCAGFEKDKACRSDSGPLVCLVQSWLQAGVLSWBGCA 254
QY 269 RNRPGVFTAVATYEAATIRQOV 305
DB 255 RQNRPGVYIRVTAHNMVIRIL-----PCLQFQPAR 285

RESULT 4

US-09-387-375-9
Sequence 9, Application US/09387375
Patent No. 6485957
GENERAL INFORMATION:
APPLICANT: Darrow, Andrew
APPLICANT: Andrade-Gordon, Patricia
TITLE OF INVENTION: DNA Encoding the Human Serine
FILE REFERENCE: ORT-1031
CURRENT APPLICATION NUMBER: US/09/387,375
CURRENT FILING DATE: 1999-08-31
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 9
LENGTH: 316
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: Amino acid
OTHER INFORMATION: Sequence of EOS zymogen fusion gene

Matches 114; Conservative 41; Mismatches 123; Indels 12; Gaps 4;

QY 7 LGGGCGTFTSLTLLASTATLNAARIPVPACGKPOLNRVVGEDSTSEMPWIVSIQK 66
Db 10 LGGGCGTFTSLTLLASTATLNAARIPVPACGKPOLNRVVGEDSTSEMPWIVSIQK 69
QY 67 GGGHICGSSLIPSWTLSAHCMTNMTGTEPPAEMSVLLGVHSQDPLDGAHRAVAATV 126
Db 70 NGTHHCAGSLTISRWTITAHCFKDN--LNKPYLFSVLLIGAWQLGNPSRSQKVAVAYE 127
QY 127 VPANTSOVE--LGADLALRLASPAISGPAWVPYCLPRASHRFVHGACWATGMDVQED 185
Db 128 PRRVYSWKAGACADIALVALERSIQSERVLPICLPDASIHLPNTHCMTISGWSIQDGV 187
QY 186 PLEPLWVLOEVELRLIGERTCCQLY--SQPGFNNLTQILPQMLCAQIPBGRDTCQD 242
Db 188 PLPHPQTLQKXKPIIDSEVCSHLVWRGAGQGP-----ITEDMLCAGYLEGRDACLGD 241
QY 243 SGGPLVCEBGRWFOAGITSPFGCGRRRPGVFTAVATYEAWIRBQVWG 292
Db 242 SGGPLMCCQVDGAWMLAGITISWBGCAERNRPGVITSLSAHRSVEXIVQG 291

RESULT 8
US-09-907-794A-263
Sequence 263, Application US/09907794A
Patent No. 6635468
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Raton, Dan L.
APPLICANT: Ferreira, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltzen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Grimaldi, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Thomas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907, 794A
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547

PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 263
LENGTH: 317
TYPE: PRT
ORGANISM: Homo Sapien
US-09-907-794A-263

Query Match 27.9%; Score 544; DB 4; Length 317;
Best Local Similarity 39.3%; Pred. No. 5, 4e-42;
Matches 114; Conservative 41; Mismatches 123; Indels 12; Gaps 4;

QY 7 LGGGCGTFTSLTLLASTATLNAARIPVPACGKPOLNRVVGEDSTSEMPWIVSIQK 66
Db 10 LGGGCGTFTSLTLLASTATLNAARIPVPACGKPOLNRVVGEDSTSEMPWIVSIQK 69
QY 67 GGGHICGSSLIPSWTLSAHCMTNMTGTEPPAEMSVLLGVHSQDPLDGAHRAVAATV 126
Db 70 NGTHHCAGSLTISRWTITAHCFKDN--LNKPYLFSVLLIGAWQLGNPSRSQKVAVAYE 127
QY 127 VPANTSOVE--LGADLALRLASPAISGPAWVPYCLPRASHRFVHGACWATGMDVQED 185
Db 128 PRRVYSWKAGACADIALVALERSIQSERVLPICLPDASIHLPNTHCMTISGWSIQDGV 187
QY 186 PLEPLWVLOEVELRLIGERTCCQLY--SQPGFNNLTQILPQMLCAQIPBGRDTCQD 242
Db 188 PLPHPQTLQKXKPIIDSEVCSHLVWRGAGQGP-----ITEDMLCAGYLEGRDACLGD 241
QY 243 SGGPLVCEBGRWFOAGITSPFGCGRRRPGVFTAVATYEAWIRBQVWG 292
Db 242 SGGPLMCCQVDGAWMLAGITISWBGCAERNRPGVITSLSAHRSVEXIVQG 291

RESULT 9
US-09-905-125A-263
Sequence 263, Application US/09905125A
Patent No. 6664376
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Raton, Dan L.
APPLICANT: Ferreira, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltzen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Grimaldi, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.

```
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT FILING DATE: 2001-07-12
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143, 048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145, 698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146, 222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 263
LENGTH: 317
TYPE: PRT
ORGANISM: Homo Sapien
US-09-905-125A-263

Query Match      27.9%; Score 544; DB: 4; Length 317;
Best Local Similarity 39.3%; Pred. No. 5.4e-42;
Matches 114; Conservative 41; Mismatches 123; Indels 12; Gaps 4;
```

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Qy      243  SGGPLVCEGGRRWFQAGITSGCGGRNRPQVFTAVATYEAWIREQVMG 292
Db      242  SGGPLMCQGVGMALAGIISWBGCAERNRPQGVITISARHSWEKIVQG 291

RESULT 10
US-09-902-775A-263
Sequence 263, Application US/09902775A
Patent No. 6686451
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Garber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143, 048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145, 698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146, 222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
```

PRIOR APPLICATION NUMBER: PCT/US00/00219
 PRIOR FILING DATE: 2000-01-05
 NUMBER OF SEQ ID NOS: 423

SEQ ID NO 263

LENGTH: 317

TYPE: PR1

ORGANISM: Homo Sapien

US-09-902-775A-263

Query Match 27.6%; Score 544; DB 4; Length 317;
 Best Local Similarity 39.3%; Pred. No. 5,4e-42;
 Matches 114; Conservative 41; Mismatches 123; Indels 12; Gaps 4;

QY 7 LSPGQGAIVANSYSVLGYVSPGAPRGPYCGRPSPASRIYGGSSAOGPTWPMQVSLHH 66
 DB 10 LGGGCGITTSLLILASTILINARIIPVPACKPQQLNKGVEGSESTSEPMWISLQK 69
 QY 67 GGGHICGSLIAPSWLSAHCMTNGTLEPAEWSVLLGVHSQDGPDLGAHTRAVAATV 126
 DB 70 NCHHCAGSLTSRWITAAHCFKDN--LNKPYLFSVLLIGAMQLGNPGRSQKVGVAWYE 127
 QY 127 VPANYSQVE-LGADIALFLASPAISGPAWVPCIPRASHRFVHGTACMAATGMDVQAD 185
 DB 128 PHPVYSWKAGACADIALVRLERSIQFSEVLPICLPDASIHLPNTHCWIISGWSIQDGV 187
 QY 186 PLPLPWLQVEHLRIGRATCCQLY---SQPGFNLTLQILPGMLCAGYPEGGRDTCQGD 242
 DB 188 PLPHPTLOKAKVPIIDSVCSHLVYRGAGQGP-----ITDMLCAGLBERDCLGD 241
 QY 243 SGGPLVCEEGGRWFQAGITSPFGCGRRNRPVFTVAATYEAATREQVNG 292
 DB 242 SGGPLMCQVDGAMLLAGIISWBGCAERNRPVGYTSLASHRSWEKIVOG 291

RESULT 11

US-09-027-337-2
 Sequence 2, Application US/09027337B
 Patent No. 5972616

GENERAL INFORMATION:

APPLICANT: O'Brien, Timothy J.

APPLICANT: Tanimoto, Hirotooshi

TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease Overexpressed in

TITLE OF INVENTION: Breast and Ovarian Carcinomas

FILE REFERENCE: D6064

CURRENT APPLICATION NUMBER: US/09/027,337B

CURRENT FILING DATE: 1998-02-20

NUMBER OF SEQ ID NOS: 13

SEQ ID NO 2

LENGTH: 855

TYPE: PR1

ORGANISM: Homo sapiens

OTHER INFORMATION: Amino acid sequence of TADG-15 encoded by nucleotides

OTHER INFORMATION: 23 to 2589 of Sequence 1

Patent No. 5972616

US-09-027-337-2

Query Match 27.6%; Score 540; DB 2; Length 855;
 Best Local Similarity 40.2%; Pred. No. 4,8e-41;
 Matches 113; Conservative 39; Mismatches 95; Indels 34; Gaps 7;

QY 32 ANGPYCGRREP-----SARIVGSNAOQPTWPMQVSLHH-GGGHI 71
 DB 581 SKGNPECDCKECSGDSDEKDCDCCGARSFTQRARVVGTDADGEMPMQVSLHALGQGH 640
 QY 72 CGGSLIAPSWLSAHCMTNG--TLEPAEWSVLLGVHSQ--DGPLDGAHTRAVAATV 128
 DB 641 CCASLISPMWLSAHCYIDDRGFYSDPTQWTAFLGHDQGRSAPGVQERRLKAILISH 700
 QY 129 ANYSQVELGADIALRLASPAISGPAWVPCIPRASHRFVHGTACMAATGMDVQADPLP 188
 DB 701 PPFNDFTDYDIALLELRPAEYSSWVRPCLPDASHVPAGKALVWTGMGHTQYGGTGA 760

QY 189 LPWVLOEVELRLIGRATCCQCLYSQPGPFNLTLQILPGMLCAGYPEGGRDTCQGDSSGPLY- 247
 DB 761 L--ILQKGIRIVINQTTGNLIPQ-----QIPRMWCVGLSGVDSCGDSGGPLS 810

QY 248 VCEEGGRWFQAGITSPFGCGRRNRPVFTVAATYEAATRE 288
 DB 811 SVEADGRIFQAGVSWGDCAQRNKPQVYTRPLFRDWIKE 851

RESULT 12

US-09-644-600-2
 Sequence 2, Application US/09644600
 Patent No. 6451500

GENERAL INFORMATION:

APPLICANT: O'Brien, Timothy J.

APPLICANT: Tanimoto, Hirotooshi

TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease

FILE REFERENCE: D6064CIP/D

CURRENT APPLICATION NUMBER: US/09/644,600

CURRENT FILING DATE: 2000-08-23

PRIOR APPLICATION NUMBER: 09/421,213

PRIOR FILING DATE: 1998-10-20

PRIOR APPLICATION NUMBER: 09/027,337

PRIOR FILING DATE: 1998-02-20

NUMBER OF SEQ ID NOS: 98

SEQ ID NO 2

LENGTH: 855

TYPE: PR1

ORGANISM: Homo sapiens

OTHER INFORMATION: TADG-15

US-09-644-600-2

Query Match 27.6%; Score 540; DB 4; Length 855;
 Best Local Similarity 40.2%; Pred. No. 4,8e-41;
 Matches 113; Conservative 39; Mismatches 95; Indels 34; Gaps 7;

QY 32 ANGPYCGRREP-----SARIVGSNAOQPTWPMQVSLHH-GGGHI 71
 DB 581 SKGNPECDCKECSGDSDEKDCDCCGARSFTQRARVVGTDADGEMPMQVSLHALGQGH 640
 QY 72 CGGSLIAPSWLSAHCMTNG--TLEPAEWSVLLGVHSQ--DGPLDGAHTRAVAATV 128
 DB 641 CCASLISPMWLSAHCYIDDRGFYSDPTQWTAFLGHDQGRSAPGVQERRLKAILISH 700
 QY 129 ANYSQVELGADIALRLASPAISGPAWVPCIPRASHRFVHGTACMAATGMDVQADPLP 188
 DB 701 PPFNDFTDYDIALLELRPAEYSSWVRPCLPDASHVPAGKALVWTGMGHTQYGGTGA 760
 QY 189 LPWVLOEVELRLIGRATCCQCLYSQPGPFNLTLQILPGMLCAGYPEGGRDTCQGDSSGPLY- 247
 DB 761 L--ILQKGIRIVINQTTGNLIPQ-----QIPRMWCVGLSGVDSCGDSGGPLS 810
 QY 248 VCEEGGRWFQAGITSPFGCGRRNRPVFTVAATYEAATRE 288
 DB 811 SVEADGRIFQAGVSWGDCAQRNKPQVYTRPLFRDWIKE 851

US-09-654-600A-2

Sequence 2, Application US/09654600A

Patent No. 6649741

GENERAL INFORMATION:

APPLICANT: O'Brien, Timothy J.

APPLICANT: Tanimoto, Hirotooshi

TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease

FILE REFERENCE: D6064CIP/D

CURRENT APPLICATION NUMBER: US/09/654,600A

CURRENT FILING DATE: 2000-09-01

PRIOR APPLICATION NUMBER: 09/421,213

09/027,337

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; PRIOR FILING DATE: 1999-10-20
; 1998-02-20
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 2
; LENGTH: 855
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: TADG-15
; US-09-654-600A-2

Query Match      27.6%; Score 540; DB 4; Length 855;
Best Local Similarity 40.2%; Pred. No. 4.8e-41;
Matches 113; Conservative 39; Mismatches 95; Indels 34; Gaps 7;

Qy 32 ARGPPYCGRRP-----SARVGSNAPGTWPMQVSLHH-GGGHI 71
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Qy 129 ANISQVBLGADLAILRLASPSLGPVAVPCLPASHRFVHTACMATGMDVQADPLP 188
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Db 701 PFDFDFDYDIALILBKEKPAEYSSMVRPICLPASHVFPAGKAIWVGWGHITGYGTGA 760
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Qy 189 LPWVLOEVELLLEATQCCLYSQGPENMLTLQILPGMLCAGYPEGRDTCQDGGGPL- 247
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Db 761 L-LQKKEIRVIMQTTENLLPQ-----QTPRMVCVPSGGVDSQDSDGGPLS 810
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Qy 248 VCEEGRWFOAGITSPFGCGRRNRPVFTAVATYEAIRE 288
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RESULT 14
US-09-008-271A-3
; Sequence 3, Application US/0908271A
; Patent No. 6203979
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; Hillman, Jennifer L.
; Yue, Henry
; Guegler, Karl J.
; Corley, Neil C.
; Tang, Tom Y.
; Shah, Purvi
; TITLE OF INVENTION: HUMAN PROTEASE MOLECULES
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/008,271A
; FILING DATE: 16-Jan-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Mohan-Peterson, Sheela
; REGISTRATION NUMBER: 41,201
; REFERENCE/DOCKET NUMBER: PF-0458 US
; TELECOMMUNICATION INFORMATION:
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; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 314 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PROSTUT03
; CLONE: 789927
; SEQUENCE DESCRIPTION: SEQ ID NO: 3 :
; US-09-008-271A-3

Query Match      27.4%; Score 534.5; DB 3; Length 314;
Best Local Similarity 39.0%; Pred. No. 4e-41;
Matches 110; Conservative 53; Mismatches 100; Indels 19; Gaps 8;

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RESULT 15
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; Sequence 257, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; Ashkenazi, Avi
; Botstein, David
; Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gutney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
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/ CURRENT FILING DATE: 2001-07-17
/ PRIOR APPLICATION NUMBER: PCT/US00/04414
/ PRIOR FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: US 60/143,048
/ PRIOR FILING DATE: 1999-07-07
/ PRIOR APPLICATION NUMBER: US 60/145,698
/ PRIOR FILING DATE: 1999-07-26
/ PRIOR APPLICATION NUMBER: US 60/146,222
/ PRIOR FILING DATE: 1999-07-28
/ PRIOR APPLICATION NUMBER: PCT/US99/20594
/ PRIOR FILING DATE: 1999-09-08
/ PRIOR APPLICATION NUMBER: PCT/US99/20944
/ PRIOR FILING DATE: 1999-09-13
/ PRIOR APPLICATION NUMBER: PCT/US99/21090
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: PCT/US99/21547
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: PCT/US99/23089
/ PRIOR FILING DATE: 1999-10-05
/ PRIOR APPLICATION NUMBER: PCT/US99/28214
/ PRIOR FILING DATE: 1999-11-29
/ PRIOR APPLICATION NUMBER: PCT/US99/28313
/ PRIOR FILING DATE: 1999-11-30
/ PRIOR APPLICATION NUMBER: PCT/US99/28564
/ PRIOR FILING DATE: 1999-12-02
/ PRIOR APPLICATION NUMBER: PCT/US99/28565
/ PRIOR FILING DATE: 1999-12-02
/ PRIOR APPLICATION NUMBER: PCT/US99/30095
/ PRIOR FILING DATE: 1999-12-16
/ PRIOR APPLICATION NUMBER: PCT/US99/30911
/ PRIOR FILING DATE: 1999-12-20
/ PRIOR APPLICATION NUMBER: PCT/US99/30999
/ PRIOR FILING DATE: 1999-12-20
/ PRIOR APPLICATION NUMBER: PCT/US00/00219
/ PRIOR FILING DATE: 2000-01-05
/ NUMBER OF SEQ ID NOS: 423
/ SEQ ID NO 257
/ LENGTH: 314
/ TYPE: PRT
/ ORGANISM: Homo Sapien
US-09-907-794A-257
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Query Match 27.4%; Score 534.5; DB 4; Length 314;
Best Local Similarity 39.0%; Pred. No. 4e-41;
Matches 110; Conservative 53; Mismatches 100; Indels 19; Gaps 8;
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Db 26 AAPISGP--CGRRVITSRIVGEDALGWPWGSLRLWDSHYCVSLSHRWALTAAHC 83
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Search completed: July 30, 2004, 08:46:08
Job time : 20 secs

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: July 30, 2004, 08:44:48 ; Search time 46 Seconds
(without alignments)
2434.452 Million cell updates/sec

Title: US-10-037-417-46

Perfect score: 1953
Sequence: 1 MAOKGYLPGPOLGAVNSDS.....TKSLVLPWLSPLHGLGMGF 357

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1291235 seqs, 313682936 residues

Total number of hits satisfying chosen parameters: 1291235

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA:*
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
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18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1953	100.0	357	12 US-10-037-417-46	Sequence 46, Appl
2	1874	96.0	344	12 US-10-037-417-44	Sequence 44, Appl
3	1505	77.1	818	9 US-09-888-615-111	Sequence 111, App
4	690	35.3	343	9 US-09-948-094-2	Sequence 2, Appl
5	690	35.3	343	12 US-10-042-865-150	Sequence 150, App
6	690	35.3	343	12 US-10-037-417-130	Sequence 130, App
7	690	35.3	343	14 US-10-176-847-86	Sequence 86, Appl
8	690	35.3	343	14 US-10-097-340-262	Sequence 262, App
9	690	35.3	343	15 US-10-074-566-125	Sequence 125, App
10	690	35.3	343	16 US-10-311-591A-3	Sequence 3, Appl
11	645	33.0	307	12 US-10-042-865-30	Sequence 30, Appl
12	631	32.3	342	12 US-10-042-865-154	Sequence 154, App
13	630.5	32.3	339	12 US-10-042-865-153	Sequence 153, App
14	627.5	32.1	339	14 US-10-109-616-2	Sequence 2, Appl
15	621	31.8	342	12 US-10-042-865-151	Sequence 151, App

16	621	31.8	342	12 US-10-037-417-133	Sequence 133, App
17	621	31.8	342	15 US-10-051-874-86	Sequence 86, Appl
18	620	31.7	342	12 US-10-042-865-152	Sequence 152, App
19	620	31.7	342	12 US-10-037-417-134	Sequence 134, App
20	620	31.7	342	15 US-10-051-874-87	Sequence 87, Appl
21	612	31.3	386	12 US-10-042-865-32	Sequence 32, Appl
22	593.5	30.4	282	16 US-10-451-168-98	Sequence 98, Appl
23	590	30.2	272	16 US-10-311-591A-6	Sequence 6, Appl
24	590	30.2	280	15 US-10-051-874-26	Sequence 26, Appl
25	590	30.2	280	16 US-10-451-168-97	Sequence 97, Appl
26	590	30.2	280	16 US-10-470-390A-36	Sequence 36, Appl
27	590	30.2	284	13 US-10-041-400A-7	Sequence 7, Appl
28	590	30.2	284	13 US-10-041-264A-7	Sequence 7, Appl
29	590	30.2	284	13 US-10-042-091A-7	Sequence 7, Appl
30	583.5	29.9	285	15 US-10-051-874-89	Sequence 89, Appl
31	582.5	29.8	346	16 US-10-311-035-8	Sequence 8, Appl
32	582	29.8	691	16 US-10-275-505-13	Sequence 13, Appl
33	575.5	29.5	255	14 US-10-221-097-36	Sequence 36, Appl
34	574	29.4	262	16 US-10-311-591A-2	Sequence 2, Appl
35	567	29.0	389	12 US-10-037-417-131	Sequence 131, App
36	567	29.0	389	15 US-10-074-978A-219	Sequence 219, App
37	563	28.8	290	11 US-09-833-245-1294	Sequence 1294, App
38	563	28.8	290	12 US-10-147-493-222	Sequence 222, App
39	563	28.8	290	12 US-10-145-127-222	Sequence 222, App
40	563	28.8	290	12 US-10-160-503-222	Sequence 222, App
41	563	28.8	290	12 US-10-143-118-222	Sequence 222, App
42	563	28.8	290	12 US-10-144-993-222	Sequence 222, App
43	563	28.8	290	12 US-10-158-787-222	Sequence 222, App
44	563	28.8	290	12 US-10-140-024-222	Sequence 222, App
45	563	28.8	290	12 US-10-140-808-222	Sequence 222, App

ALIGNMENTS

RESULT 1
US-10-037-417-46
Sequence 46, Application US/10037417
Publication No. US20040052806A1
GENERAL INFORMATION:
APPLICANT: Kekuda, Ramesh
APPLICANT: Alsobrook II, John P
APPLICANT: Tcherenev, Vellizar T
APPLICANT: Liu, Xiaohong
APPLICANT: Spyttek, Kimberly A
APPLICANT: Patturajan, Meera
APPLICANT: Grose, William M
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine E
APPLICANT: Vernet, Corine A.M.
APPLICANT: Li, Li
APPLICANT: Gorman, Linda
APPLICANT: Balingier, Shlomit R
APPLICANT: Sciore, Paul
APPLICANT: Ellerman, Karen
APPLICANT: Malyankar, Uriel M
APPLICANT: Rothenberg, Mark
APPLICANT: Stone, David J
APPLICANT: Boldog, Ferenc L
APPLICANT: Guo, Xiaojia
APPLICANT: Shenoy, Suresh G
APPLICANT: Anderson, David W
APPLICANT: Padigaru, Muralidhara
APPLICANT: Taulier Jr, Raymond J
APPLICANT: Miller, Charles E
APPLICANT: Eissen, Andrew J
TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-235
CURRENT APPLICATION NUMBER: US/10/037,417
CURRENT FILING DATE: 2002-09-20
PRIOR APPLICATION NUMBER: 60/260,018
PRIOR FILING DATE: 2001-01-05
PRIOR APPLICATION NUMBER: 60/260,360

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; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/272,411
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/272,817
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 60/291,186
; PRIOR FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: 60/303,231
; PRIOR FILING DATE: 2001-07-05
; PRIOR APPLICATION NUMBER: 60/305,060
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/318,405
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/318,700
; PRIOR FILING DATE: 2001-09-12
; NUMBER OF SEQ ID NOS: 227
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 46
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-037-417-46

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Best Local Similarity 100.0%; Pred. No. 3,1e-161;
Matches 357; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 QVSLHHGGHICGGSLIAPSWTISAACHCMTNGTLEPPAEMSVLLGVHSQDGPDLGAHTR 120
QY 121 AVAAIVVPANYSQVEIGADLALRLASPASLGPAPVPCLPASHRFVHGTACMATGMD 180
DB 121 AVAAIVVPANYSQVEIGADLALRLASPASLGPAPVPCLPASHRFVHGTACMATGMD 180
QY 181 VQADPPLPWPVLOVEVELRLGEATQCCLYSQPGFNLTLQILPGLCAGYEGRRDTCQ 240
DB 181 VQADPPLPWPVLOVEVELRLGEATQCCLYSQPGFNLTLQILPGLCAGYEGRRDTCQ 240
QY 241 GDSGGPLVCEBGRWFQAGITSPGCGRRNRPVFTAVATTEAMIREQVMGSEPGPAP 300
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DB 301 TOPKQTQSDCLHQTAFLDARILRLPLSHISVGVSTGTSKSLVLPMLSPHSLLGLMGF 357

RESULT 2
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; Sequence 44, Application US/10037417
; Publication No. US20040052806A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Alsobrook II, John P
; APPLICANT: Toherney, Velizar T
; APPLICANT: Liu, Xiaohong
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Patutraj, Meera
; APPLICANT: Grose, William M
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Li, Li
; APPLICANT: Gorman, Linda
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Sciore, Paul
; APPLICANT: Ellerman, Karen
; APPLICANT: Malyankar, Uriel M
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; APPLICANT: Rothenberg, Mark
; APPLICANT: Stone, David J
; APPLICANT: Boldog, Retenc L
; APPLICANT: Guo, Xiaojia
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Anderson, David W
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Miller, Charles E
; APPLICANT: Eisen, Andrew J
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-235
; CURRENT APPLICATION NUMBER: US/10/037,417
; PRIOR FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: 60/260,018
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: 60/260,360
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/272,411
; PRIOR FILING DATE: 2001-02-28
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; PRIOR FILING DATE: 2001-05-15
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; PRIOR APPLICATION NUMBER: 60/305,060
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/318,405
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/318,700
; PRIOR FILING DATE: 2001-09-12
; NUMBER OF SEQ ID NOS: 227
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-037-417-44

Query Match      96.0%; Score 1874; DB 12; Length 344;
Best Local Similarity 100.0%; Pred. No. 2,2e-154;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAQKGVLPGRGQLGAVANSYSYLYGVPSGPARGPPYCGRPSPARIVGGSNAQPGTWM 60
DB 1 MAQKGVLPGRGQLGAVANSYSYLYGVPSGPARGPPYCGRPSPARIVGGSNAQPGTWM 60
QY 61 QVSLHHGGHICGGSLIAPSWTISAACHCMTNGTLEPPAEMSVLLGVHSQDGPDLGAHTR 120
DB 61 QVSLHHGGHICGGSLIAPSWTISAACHCMTNGTLEPPAEMSVLLGVHSQDGPDLGAHTR 120
QY 121 AVAAIVVPANYSQVEIGADLALRLASPASLGPAPVPCLPASHRFVHGTACMATGMD 180
DB 121 AVAAIVVPANYSQVEIGADLALRLASPASLGPAPVPCLPASHRFVHGTACMATGMD 180
QY 181 VQADPPLPWPVLOVEVELRLGEATQCCLYSQPGFNLTLQILPGLCAGYEGRRDTCQ 240
DB 181 VQADPPLPWPVLOVEVELRLGEATQCCLYSQPGFNLTLQILPGLCAGYEGRRDTCQ 240
QY 241 GDSGGPLVCEBGRWFQAGITSPGCGRRNRPVFTAVATTEAMIREQVMGSEPGPAP 300
DB 241 GDSGGPLVCEBGRWFQAGITSPGCGRRNRPVFTAVATTEAMIREQVMGSEPGPAP 300
QY 301 TOPKQTQSDCLHQTAFLDARILRLPLSHISVGVSTGTSKSLVLP 344
DB 301 TOPKQTQSDCLHQTAFLDARILRLPLSHISVGVSTGTSKSLVLP 344

RESULT 3
US-09-888-615-111
; Sequence 111, Application US/09888615
; Patent No. US20020064856A1
```

```

; GENERAL INFORMATION:
; APPLICANT: PLOMMAN, GREGORY
; APPLICANT: WHITE, DAVID
; APPLICANT: CAENEPEEL, SEAN
; APPLICANT: CHARYDECIK, GLEN
; APPLICANT: MANNING, GERARD
; APPLICANT: SUPARSANAM, SUCHA
; TITLE OF INVENTION: NOVEL PROTEASES
; FILE REFERENCE: 038602/1214
; CURRENT APPLICATION NUMBER: US/09/888,615
; CURRENT FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/214,047
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 150
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 111
; LENGTH: 818
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-615-111

```

Query Match 77.1%; Score 1505; DB 9; Length 818;

Best Local Similarity 100.0%; Pred. No. 6,9e-122; Indels 0; Gaps 0;

```

Matches 272; Mismatches 0; Indels 0; Gaps 0;
QY 38 CGRPSPARIVGSSNAQPGTWPMQVSIHHGGHICGSLIAPSWTISAHCFTMTNLTLEP 97
Db 38 CGRPSPARIVGSSNAQPGTWPMQVSIHHGGHICGSLIAPSWTISAHCFTMTNLTLEP 97
QY 98 AAESVLLGVHSQDGLDGAHTRAAATVPAVANSQVVLGADLALIRLASASIGPAVWP 157
Db 98 AAESVLLGVHSQDGLDGAHTRAAATVPAVANSQVVLGADLALIRLASASIGPAVWP 157
QY 158 VCLPRASHRFHGTACMATGWDVQADPLPLPWLTQVEHLRIGEATCCCLYSOPGFEN 217
Db 158 VCLPRASHRFHGTACMATGWDVQADPLPLPWLTQVEHLRIGEATCCCLYSOPGFEN 217
QY 218 LTQILPMTCAIYPEGRRDTCQGDSSGPIVCEBGRWFQAGITSFPGCGRRRPGVFT 277
Db 218 LTQILPMTCAIYPEGRRDTCQGDSSGPIVCEBGRWFQAGITSFPGCGRRRPGVFT 277
QY 278 AVATYEMIRPQWNGSERGPAFPPTQPOKTQSD 309
Db 278 AVATYEMIRPQWNGSERGPAFPPTQPOKTQSD 309

```

RESULT 4

```

US-09-948-094-2
; Sequence 2, Application US/09948094
; Patent No. US20020090625A1
; GENERAL INFORMATION:
; APPLICANT: The Brigham and Women's Hospital, Inc.
; APPLICANT: Mok, Samuel
; APPLICANT: Wong, Kwong-twok
; TITLE OF INVENTION: Methods of Detecting Cancer Based on Prostatein
; FILE REFERENCE: 81994/282423
; CURRENT APPLICATION NUMBER: US/09/948,094
; CURRENT FILING DATE: 2001-09-07
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-948-094-2

```

Query Match 35.3%; Score 690; DB 9; Length 343;

Best Local Similarity 43.6%; Pred. No. 1.6e-51;

```

Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;
QY 1 MAQGVIGPQGLAVANSDSYSLY-GLVPSGP-----ARGPPYCGRPSPARIVGSSNAQ 55
Db 1 MAQGVIGPQGLAVANSDSYSLY-GLVPSGP-----ARGPPYCGRPSPARIVGSSNAQ 55

```

```

QY 56 GTWPMQVSIHHGGHICGSLIAPSWTISAHCFTMTNLTLEPAAEMSVTLGVHSQDGLD 115
Db 56 GTWPMQVSIHHGGHICGSLIAPSWTISAHCFTMTNLTLEPAAEMSVTLGVHSQDGLD 115
QY 116 GAHTRAAATVPAVANSQVVLGADLALIRLASASIGPAVWPVCLPRASHRFHGTACMA 175
Db 116 GAHTRAAATVPAVANSQVVLGADLALIRLASASIGPAVWPVCLPRASHRFHGTACMA 175
QY 176 TGMWDVQADPLPLPWLTQVEHLRIGEATCCCLYSOPGFENLTQILPMTCAIYPEGRR 235
Db 176 TGMWDVQADPLPLPWLTQVEHLRIGEATCCCLYSOPGFENLTQILPMTCAIYPEGRR 235
QY 236 RDTQGDSSGPIVCEBGRWFQAGITSFPGCGRRRPGVFTAAVYEMIRPQWNGSER 295
Db 236 RDTQGDSSGPIVCEBGRWFQAGITSFPGCGRRRPGVFTAAVYEMIRPQWNGSER 295
QY 296 GPAFPPTQPOKTQSD--CLHQTAFVLDG-ARILRPLSHISVGVSTGYSKLVLPWLS 349
Db 296 GPAFPPTQPOKTQSD--CLHQTAFVLDG-ARILRPLSHISVGVSTGYSKLVLPWLS 349

```

RESULT 5

```

US-10-042-865-150
; Sequence 150, Application US/10042865
; Publication No. US20040029216A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Li, Li
; APPLICANT: Zethusen, Bryan D
; APPLICANT: Casman, Stacie J
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zhong, Mei
; APPLICANT: Gangoli, Esha A
; APPLICANT: Burgess, Catherine E
; APPLICANT: Patturajan, Meera
; APPLICANT: Verneet, Corine A.M
; APPLICANT: Taylor, Sarah
; APPLICANT: Tcherenev, Velizar T
; APPLICANT: Miller, Charles E
; APPLICANT: Guo, Xiaojia
; APPLICANT: Boldog, Ference L
; APPLICANT: Grose, William M
; APPLICANT: Alebrock II, John P
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Ellerman, Karen
; APPLICANT: MacDougall, John
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Millet, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glennda
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, David
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-537
; CURRENT APPLICATION NUMBER: US/10/042,865
; CURRENT FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/260,417
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 60/260,831
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: 60/272,338
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/274,876
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/284,704
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 264
; SOFTWARE: PatentIn Ver. 2.1

```

```

/ SEQ ID NO 150
/ LENGTH: 343
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-042-865-150

Query Match      35.3%; Score 690; DB 12; Length 343;
Best Local Similarity 43.6%; Pred. No. 1,6e-51;
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

QY      1 MAQGVTLGGQLGVANSDSYSLY GLVPSGP---ARGPYCGRPSPARIVGSSNQRP 55
DB      1 MAQGVTLGGQLGAAV---ILLYGLRSGTGAAGAAP--CG-VAAQANITGSSSAVA 53
QY      56 GTWPPQVSVLHHGGGHHICGSGSLIAPSWVLSAHCFTWNTLTLEPAAEMSVTLGVHSODGPLD 115
DB      54 GQWPPQVSVITGEVYAVCGGSLVSEQWVLSAHCFTSEHKKK--AYEVKLGHHQSDVSE 110
QY      116 GAHTRAVAIVPVPANYSQVEHIGADILALRLASPSALGPAWVCLCPRAHSRHFEGTACWA 175
DB      111 DAKVSTLMDIITPHPSYLOEGSSQGDITALLQLSRPIFTFSYIRPILCPAANAEPENLHCTV 170
QY      176 TGWGVYQADPLPPLPWVLOEVELRLIGFATQCCLYSQGPEPNTLQILPGMLCAGYPRGR 235
DB      171 TGMGVAVASVSLITPKPLQQLFVPLISSETCNCLYINDAKREBHFVQEDWACGYVDSG 230
QY      236 RDTCCGDSGGLPVCEHGGRRWFOAGITSPFGCGRRNRDGVFTAVATYPAWIREQYMGSEP 295
DB      231 KDACCGDSGGGLSPCEVGLWYLTGIVSWGDAAGANRRGVYTLASSVASYMIQSKV--TEL 288
QY      296 GPAPFQPOKTKQSD---CLHQTAFLDS--ARILLRPLSHHSVGSVGTGTSIVLPMILSPH 349
DB      289 QPRVVPQTESQPDNSNLGSHLAFSSAPQAGILRPILFLPUGLAGD--LISPWLSEH 343

RESULT 6
US-10-037-417-130
/ Sequence 130, Application US/10037417
/ Publication No. US20040052806A1
/ GENERAL INFORMATION:
/ APPLICANT: Kekuda, Ramesh
/ APPLICANT: Alsbrook II, John P
/ APPLICANT: Tchernev, Velizar T
/ APPLICANT: Liu, Xiaohong
/ APPLICANT: Spytek, Kimberly A
/ APPLICANT: Patturajan, Meera
/ APPLICANT: Grosse, William M
/ APPLICANT: Lepley, Denise M
/ APPLICANT: Burgess, Catherine E
/ APPLICANT: Vernet, Corine A.M.
/ APPLICANT: Li, Li
/ APPLICANT: Gorman, Linda
/ APPLICANT: Edinger, Shlomit R
/ APPLICANT: Sciore, Paul
/ APPLICANT: Ellerman, Karen
/ APPLICANT: Malyanekar, Uriel M
/ APPLICANT: Rothenberg, Mark
/ APPLICANT: Stone, David J
/ APPLICANT: Boldog, Ferenc L
/ APPLICANT: Guo, Xiaojia
/ APPLICANT: Shenoy, Suresh G
/ APPLICANT: Anderson, David W
/ APPLICANT: Padigaru, Muralidhara
/ APPLICANT: Taupier Jr, Raymond J
/ APPLICANT: Miller, Charles E
/ APPLICANT: Eissen, Andrew J
/ TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
/ FILE REFERENCE: 21402-235
/ CURRENT APPLICATION NUMBER: US/10/037,417
/ PRIOR FILING DATE: 2002-09-20
/ PRIOR APPLICATION NUMBER: 60/260,018
/ PRIOR FILING DATE: 2001-01-05
/ PRIOR APPLICATION NUMBER: 60/260,360

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PRIORITY FILLING DATE: 2001-01-08
PRIORITY APPLICATION NUMBER: 60/272,411
PRIORITY FILLING DATE: 2001-02-28
PRIORITY APPLICATION NUMBER: 60/272,817
PRIORITY FILLING DATE: 2001-03-02
PRIORITY APPLICATION NUMBER: 60/291,186
PRIORITY FILLING DATE: 2001-05-15
PRIORITY APPLICATION NUMBER: 60/303,231
PRIORITY FILLING DATE: 2001-07-05
PRIORITY APPLICATION NUMBER: 60/305,060
PRIORITY FILLING DATE: 2001-07-12
PRIORITY APPLICATION NUMBER: 60/318,405
PRIORITY FILLING DATE: 2001-09-10
PRIORITY APPLICATION NUMBER: 60/318,700
PRIORITY FILLING DATE: 2001-09-12
NUMBER OF SEQ ID NOS: 227
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 130
LENGTH: 343
TYPE: PRT
ORGANISM: Homo sapiens
US-10-037-417-130

Query Match          35.3%; Score 690; DB 12; Length 343;
Best Local Similarity 43.6%; Pred. No. 1.6e-51;
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

QY      1  MAQKGVIGPQLGAVANSDSYSILY-GLVSGP---AKRPYCGRPPRSARITYGGSNAOP 55
DB      1  MAQKGVIGPQGLGAVV-----ILLYLGILRSGTGAGAGAAP--CG-VAPQARITGGSSAVA 53

QY      56  GTWPMQVSLHHGGGSHICGSSLLIAPSWLISAACFTMTGTEPPAEMSVLLGVHSODPDL 115
DB      54  GQWPMQVSLITBGVHVCSSLVSEQWVLSAAHCPSPSHHKE---AYVKGAGHQLDLSYSY 110

QY      116  GAHTRAVAATVPVANTYSQVEIGADLALLRLASPASLGPAAWVPCLPRAHRFVHGTACMA 175
DB      111  DAKSTLIKDIILPHPSYLIQBSQGDIALLOSRPITFRYIRPICLPANASFPNGHLCIV 170

QY      176  TGMGDVQEADELPIPWYLQVEVRLGEATCCCLYSPPGFNNLTQLIPMLCAGYDEGR 235
DB      171  TGMGHVAPSVSLTPKPLQOLEVPLISRTCNCLYNIDAKEEPHFVQEDMVCAGYVEGG 230

QY      236  RDTQGSQGGPGLVCEBEGRWFOAGITSPFGCGCGRNRNPGFTVAATYEAMVIRQVMGSEP 295
DB      231  KDACQSGSGGGLPCPVEHGLWLTGIVSWGACGARKNPGYTTLASSYASVYQSKV--TEL 288

QY      296  GPAPFPPOKQOSD---CLHQTAFLDS-ARILRLPLSHISVGSVTGKSLVLPWLSPH 349
DB      289  QPRVVPQTQESQPPDSNLGSHLAFSSAPAGGLRLPILFLGLGALG--LLSPWLSBH 343

RESULT 7
US-10-176-847-86
; Sequence 86, Application US/10176847
; Publication No. US20030068636A1
; GENERAL INFORMATION:
; APPLICANT: Velody, Peter Ole
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
; TITLE OF INVENTION: AND OVARIAN CANCER
; FILE REFERENCE: MRI-039
; CURRENT APPLICATION NUMBER: US/10/176,847
; CURRENT FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-176-847-86

Query Match          35.3%; Score 690; DB 14; Length 343;

```

Best Local Similarity 43.6%, Pred. No. 1.6e-51;
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

```
QY 1 MAQGVLPGLGAVANSYSIX-GLVPSG---ANGPPYCGRPEPSARIIVGSGNAP 55
DB 1 MAQGVLPGLGAVN-----ILTYLGLRSGTGAEGAAP--CG-VAPQAITTGSSAIVA 53
QY 56 GTWPMVSLHHGGGHIICGSLIAPSWLSAAHCFMTNCTLEPPAAWSVLLGVHSDGDL 115
DB 54 GQMPVQVSIYEGVAVCGSLVSEQWVLSAAHCFSEHKE---AYEYKLGHQIDYSR 110
QY 116 GAHRAVAIVPVANSQVELGADLALRLASPSLGAWVPCIPRASHRFVGTACMA 175
DB 111 DAKVSTLKDIIPHSYLOEGSGDIALQLSRPTFSRYIRPICPPAANASFPNGLHCTV 170
QY 176 TGMGDVGEADPLPLPWLYOEVELRLGEATQCCLYSGPPNLTQLIPGMLCAGYPRGR 235
DB 171 TGMGHVAPSVLPLPKPLQQLLEVPILSRCTNCLYNIDAKXDEPHFVQEDWVCAGYVGG 230
QY 236 RDTQGSQSGPLVCEEGRWFOAGITSPFGCGRRNRDGVFTAVATYAMTREQVMGSEP 295
DB 231 KDACQGSQSGPLSCPEVGLWYLTGIVSWGDACGARNRGVYTLASVSASWIOSKV--TEL 288
QY 296 GAFFPQOKTQSD---CLHQTAFIDS-ARILRLPSHSIVSVSTGTSLVLPMTSPH 349
DB 289 QPRVVPQTESQPSNLCGSHLAFSSADPAQGLRLPLFLGLALG---LLSPWLSEH 343
```

RESULT 8
US-10-097-340-262

; Sequence 262, Application US/10097340
; Publication No. US20030087250a1

; GENERAL INFORMATION:

; APPLICANT: John MONAHAN

; APPLICANT: Manjula GANNANARAPU

; APPLICANT: Sebastian HOERSCHE

; APPLICANT: Shubhangi KAWATKAR

; APPLICANT: Steve G. KOVATS

; APPLICANT: Rachel E. MEYERS

; APPLICANT: Michael MORRISSEY

; APPLICANT: Peter OLANDT

; APPLICANT: Ami SEN

; APPLICANT: Peter VEIBY

; APPLICANT: Gordon B. MILLS

; APPLICANT: Robert C. BAST, Jr.

; APPLICANT: Karen LU

; APPLICANT: Rosemarie SCHMANT

; APPLICANT: Xumei ZHAO

; APPLICANT: Karen GLATT

; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
; FILE REFERENCE: MRI-030

; CURRENT APPLICATION NUMBER: US/10/097,340

; PRIOR FILING DATE: 2002-03-14

; PRIOR APPLICATION NUMBER: 60/276,025

; PRIOR FILING DATE: 2001-03-14

; PRIOR APPLICATION NUMBER: 60/325,149

; PRIOR FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 60/276,026

; PRIOR FILING DATE: 2001-03-14

; PRIOR APPLICATION NUMBER: 60/324,967

; PRIOR FILING DATE: 2001/09/26

; PRIOR APPLICATION NUMBER: 60/311,732

; PRIOR FILING DATE: 2001-08-10

; PRIOR APPLICATION NUMBER: 60/325,102

; PRIOR FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 60/323,580

; PRIOR FILING DATE: 2001-09-19

; NUMBER OF SEQ ID NOS: 363

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 262

; LENGTH: 343

; TYPE: PRT

; ORGANISM: Homo sapiens
US-10-097-340-262

Query Match 35.3%, Score 690; DB 14; Length 343;

Best Local Similarity 43.6%, Pred. No. 1.6e-51;
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

```
QY 1 MAQGVLPGLGAVANSYSIX-GLVPSG---ANGPPYCGRPEPSARIIVGSGNAP 55
DB 1 MAQGVLPGLGAVN-----ILTYLGLRSGTGAEGAAP--CG-VAPQAITTGSSAIVA 53
QY 56 GTWPMVSLHHGGGHIICGSLIAPSWLSAAHCFMTNCTLEPPAAWSVLLGVHSDGDL 115
DB 54 GQMPVQVSIYEGVAVCGSLVSEQWVLSAAHCFSEHKE---AYEYKLGHQIDYSR 110
QY 116 GAHRAVAIVPVANSQVELGADLALRLASPSLGAWVPCIPRASHRFVGTACMA 175
DB 111 DAKVSTLKDIIPHSYLOEGSGDIALQLSRPTFSRYIRPICPPAANASFPNGLHCTV 170
QY 176 TGMGDVGEADPLPLPWLYOEVELRLGEATQCCLYSGPPNLTQLIPGMLCAGYPRGR 235
DB 171 TGMGHVAPSVLPLPKPLQQLLEVPILSRCTNCLYNIDAKXDEPHFVQEDWVCAGYVGG 230
QY 236 RDTQGSQSGPLVCEEGRWFOAGITSPFGCGRRNRDGVFTAVATYAMTREQVMGSEP 295
DB 231 KDACQGSQSGPLSCPEVGLWYLTGIVSWGDACGARNRGVYTLASVSASWIOSKV--TEL 288
QY 296 GAFFPQOKTQSD---CLHQTAFIDS-ARILRLPSHSIVSVSTGTSLVLPMTSPH 349
DB 289 QPRVVPQTESQPSNLCGSHLAFSSADPAQGLRLPLFLGLALG---LLSPWLSEH 343
```

RESULT 9

US-10-074-566-125

; Sequence 125, Application US/10074566

; Publication No. US20030207348a1

; GENERAL INFORMATION:

; APPLICANT: Shinketsu, Richard A.

; APPLICANT: Fernandes, Elma R.

; APPLICANT: Li, Li

; APPLICANT: Gorman, Linda

; APPLICANT: Gusev, Vladimir Y.

; APPLICANT: Padigara, Muralidhara

; APPLICANT: Paturajan, Meera

; APPLICANT: Shenoy, Suresh G.

; APPLICANT: Spytek, Kimberly A.

; TITLE OF INVENTION: Polypeptides and Polynucleotides Encoding Same

; FILE REFERENCE: 15966-556 CIP1

; CURRENT APPLICATION NUMBER: US/10/074,566

; PRIOR FILING DATE: 2002-02-13

; PRIOR APPLICATION NUMBER: 09/619,252

; PRIOR FILING DATE: 2000-07-19

; PRIOR APPLICATION NUMBER: 60/144,722

; PRIOR FILING DATE: 1999-07-20

; PRIOR APPLICATION NUMBER: 60/167,785

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: 60/276,994

; PRIOR FILING DATE: 2001-03-19

; PRIOR APPLICATION NUMBER: 60/280,898

; PRIOR FILING DATE: 2001-04-02

; PRIOR APPLICATION NUMBER: 60/332,241

; PRIOR FILING DATE: 2001-11-14

; PRIOR APPLICATION NUMBER: 60/288,062

; PRIOR FILING DATE: 2001-05-02

; PRIOR APPLICATION NUMBER: 60/291,766

; PRIOR FILING DATE: 2001-05-17

; PRIOR APPLICATION NUMBER: 60/314,007

; PRIOR FILING DATE: 2001-08-21

; NUMBER OF SEQ ID NOS: 132

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 125

; LENGTH: 343

; TYPE: PRT

```

; ORGANISM: human
US-10-074-566-125

Query Match      35.3%; Score 690; DB 15; Length 343;
Best Local Similarity 43.6%; Pred. No. 1.6e-51;
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

QY 1 MAQKGYLGGQIGAVANSYSYLY-GLVPSGP---ARGPYCGRPPSARIVGSSNAQP 55
DB 1 MAQKGYLGGQIGAVANSYSYLY-GLVPSGP---ARGPYCGRPPSARIVGSSNAQP 53

QY 56 GTWPMQVSLHHGGGHIICGSSLTAPSWVLSAHCFTMTNGTLEPAEWSVLLGVHSQDGPID 115
DB 54 GQMPQVSLTYSBVHVCSSIVSEQVWLSAHCFTPEHHKE---AVEVLLGHHQIDSYSE 110

QY 116 GAHTRAVAALIVPANSQVELGADLALLRLASPASIGPAPVPCLPASHRFPHGTACMA 175
DB 111 DAKVSTLKDIIPHPSTLQSGQDIALDLSRPTFSRYIRPCLPANAASFPNGHACTV 170

QY 176 TGMGVQADPLPLPWVLEVELRLIGBATCCQCLYSGQPGFNLTLQILPQMLCAGYPEG 235
DB 171 TGMGVAVPSVSLTTPKPLQQLKPLSRETCLNLIIDAKPEEPHFVQEDMVCAGYVEGG 230

QY 236 RDTCCGDSGGPLVCEBGEWFOAGITSRFGCGRRNRPGVFTAVATYEAWIREQWGSBP 295
DB 231 KACQGDSSGGLSCPYEGLMYLGIYSWGDACGARRRPGVYTLASYSASWIOSKV--TEL 288

QY 296 GAFFPQPOKTQSD---CLHQTAFLDS-ARILRLPSHSIVSVSTGTSKSLVLPWLSPH 349
DB 289 QPRVVPQTESQPDNSMLCGSHLAFSSAPAQGLRLPLFLPLGLALG---LISPWLSBH 343

RESULT 10
US-10-311-591A-3
; Sequence 3, Application US/10311591A
; Publication No. US20040141962A1
; GENERAL INFORMATION:
; APPLICANT: Xlao, Yonghong
; TITLE OF INVENTION: Regulation of Human Prostatein-Like
; FILE OF INVENTION: Serine Protease
; FILE REFERENCE: 004974.00929
; CURRENT APPLICATION NUMBER: US/10/311,591A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 60/213,474
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/277,612
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-311-591A-3

Query Match      35.3%; Score 690; DB 16; Length 343;
Best Local Similarity 43.6%; Pred. No. 1.6e-51;
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

QY 1 MAQKGYLGGQIGAVANSYSYLY-GLVPSGP---ARGPYCGRPPSARIVGSSNAQP 55
DB 1 MAQKGYLGGQIGAVANSYSYLY-GLVPSGP---ARGPYCGRPPSARIVGSSNAQP 53

QY 56 GTWPMQVSLHHGGGHIICGSSLTAPSWVLSAHCFTMTNGTLEPAEWSVLLGVHSQDGPID 115
DB 54 GQMPQVSLTYSBVHVCSSIVSEQVWLSAHCFTPEHHKE---AVEVLLGHHQIDSYSE 110

QY 116 GAHTRAVAALIVPANSQVELGADLALLRLASPASIGPAPVPCLPASHRFPHGTACMA 175
DB 111 DAKVSTLKDIIPHPSTLQSGQDIALDLSRPTFSRYIRPCLPANAASFPNGHACTV 170

QY 176 TGMGVQADPLPLPWVLEVELRLIGBATCCQCLYSGQPGFNLTLQILPQMLCAGYPEG 235
DB 171 TGMGVAVPSVSLTTPKPLQQLKPLSRETCLNLIIDAKPEEPHFVQEDMVCAGYVEGG 230

QY 236 RDTCCGDSGGPLVCEBGEWFOAGITSRFGCGRRNRPGVFTAVATYEAWIREQWGSBP 295
DB 231 KACQGDSSGGLSCPYEGLMYLGIYSWGDACGARRRPGVYTLASYSASWIOSKV--TEL 288

QY 296 GAFFPQPOKTQSD---CLHQTAFLDS-ARILRLPSHSIVSVSTGTSKSLVLPWLSPH 349
DB 289 QPRVVPQTESQPDNSMLCGSHLAFSSAPAQGLRLPLFLPLGLALG---LISPWLSBH 343
```

```

DB 171 TGMGVAVPSVSLTTPKPLQQLKPLSRETCLNLIIDAKPEEPHFVQEDMVCAGYVEGG 230
QY 236 RDTCCGDSGGPLVCEBGEWFOAGITSRFGCGRRNRPGVFTAVATYEAWIREQWGSBP 295
DB 231 KACQGDSSGGLSCPYEGLMYLGIYSWGDACGARRRPGVYTLASYSASWIOSKV--TEL 288

QY 296 GAFFPQPOKTQSD---CLHQTAFLDS-ARILRLPSHSIVSVSTGTSKSLVLPWLSPH 349
DB 289 QPRVVPQTESQPDNSMLCGSHLAFSSAPAQGLRLPLFLPLGLALG---LISPWLSBH 343

RESULT 11
US-10-042-865-30
; Sequence 30, Application US/10042865
; Publication No. US20040029216A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Murajidhara
; APPLICANT: Li, Li
; APPLICANT: Zethusen, Bryan D
; APPLICANT: Casman, Stacie J
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zhong, Mei
; APPLICANT: Gangolli, Esha A
; APPLICANT: Burgess, Catherine E
; APPLICANT: Paturajan, Meera
; APPLICANT: Vernet, Corine A.M
; APPLICANT: Taylor, Sarah
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Miller, Charles E
; APPLICANT: Guo, Xiaojia
; APPLICANT: Boldog, Ferenc L
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Edinger, Slnomir R
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Ellerman, Karen
; APPLICANT: Macdougall, John
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Millet, Isabelle
; APPLICANT: Feyman, John
; APPLICANT: Smithson, Glenda
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, David
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-537
; CURRENT APPLICATION NUMBER: US/10/042,865
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/260,417
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 60/260,831
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: 60/272,338
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/274,876
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/284,704
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 264
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
; LENGTH: 307
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-042-865-30

Query Match      33.0%; Score 645; DB 12; Length 307;
Best Local Similarity 41.3%; Pred. No. 1.1e-47;
Matches 148; Conservative 45; Mismatches 105; Indels 60; Gaps 11;

QY 1 MAQKGYLGGQIGAVANSYSYLY-GLVPSGP---ARGPYCGRPPSARIVGSSNAQP 55
```

```

Db 1 MAQKVLBPQGVGA---ILLYGLRSGTGAGAP--CG-VAPQARITGSSAXVA 53
QY GTWPMQVSLHHGGGHI CGSLIAPSVLSAHCFTNGTLEPAEWSVLGVHSQDGLD 115
Db 54 GQMFQVSVITTEGVHVCSSGLVSEQWLSAHCF-----87
QY 116 GAHTRAVAIVPANYSGVELGADLALRLASPSLIGPAWVPCLPRAHRFVHTACMA 175
Db 88 -----PSHHKSGQ-DIALQLSRPTSYNIRPICLPANASFPNGHCTV 134
QY 176 TGMGVQVADPLPLPWVIOEVELRLGATCCQCLYSQCPFNLTILQIPMLCAGYPRGR 235
Db 135 TGMGVAPSVSLTPKPIQOLEVPLISRETCLYNINAKPEBPHVOEDMWCAGYVGG 194
QY 236 RDTCCGDSGGLVCEBGRWFQAGITSPFGGRRNRPVFTAVATYAMIREQWMSRP 295
Db 195 KDAQCGDSGDPVLSCEVBEJMTVLGVSWGDACGARNRPGVTTLASSTASWTSQKV--TEL 252
QY 296 GPAPPTPOKTOSD---CLHQTAFLDS-ARILRLPSHSVGVSTGTSLVPLMSPH 349
Db 253 QPRVVPQTESQDPBNLCGSHLAFSSAPAGQLRPLPLGLALG---LISPMLSH 307

```

RESULT 12

```

US-10-042-865-154
; Sequence 154, Application US/10042865
; Publication No. US20040029216A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Li, Li
; APPLICANT: Zexhusen, Bryan D
; APPLICANT: Casman, Stacie J
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zhong, Mei
; APPLICANT: Gangoli, Esha A
; APPLICANT: Burgess, Catherine E
; APPLICANT: Patturajan, Meera
; APPLICANT: Vernet, Corine A.M
; APPLICANT: Taylor, Sarah
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Miller, Charles E
; APPLICANT: Guo, Xiaojia
; APPLICANT: Boldog, Ference L
; APPLICANT: Grosse, William M
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Ellerman, Karen
; APPLICANT: MacDougall, John
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Miller, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glennnda
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, David
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-537
; CURRENT APPLICATION NUMBER: US/10/042, 865
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/260,417
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 60/260,831
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: 60/272,338
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/274,876
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/284,704
; PRIOR FILING DATE: 2001-04-18

```

```

; NUMBER OF SEQ ID NOS: 264
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 154
; LENGTH: 342
; TYPE: PRIT
; ORGANISM: Mus musculus
US-10-042-865-154

```

```

Query Match 32.3%; Score 631; DB 12; Length 342;
Best Local Similarity 41.4%; Pred. No. 2,1e-46;
Matches 146; Conservative 48; Mismatches 139; Indels 20; Gaps 10;

```

```

QY 1 MAQKVLBPQGVGA VANSYSYLVPSG-PARG-PRYCGRP-EPASARIYGSNAOPGT 57
Db 1 MARVGLGLGLEAVT---ILLILGLQSGIRADGTASCAVQOP-RITGGSARKQ 55
QY 58 WPMQVSLHHGGGHI CGSLIAPSVLSAHCFTNGTLEPAEWSVLGVHSQDGLDGA 117
Db 56 WPMQVSLTYDGNHVCSSGLVSNKWVSAHCFPREHRE--AYEVKGAHQLDYSNDT 112
QY 118 HTRAVAIVPANYSGVELGADLALRLASPSLIGPAWVPCLPRAHRFVHTACMAN 177
Db 113 VHTVQAQIITHSSTRBSQGLDIALFRLSSPVTSRYTRPCLPANASFPNGHCTV 172
QY 178 WGVQVQADPLPLPWVIOEVELRLGATCCQCLYSQCPFNLTILQIPMLCAGYPRGR 237
Db 173 WGVAPSVSLQTPRPLQOLEVPLISRETCSCLYNINAVPEBPHVOEDMWCAGYVGG 232
QY 238 TCQDSDSGGLVCEBGRWFQAGITSPFGGRRNRPVFTAVATYAMIREQWMSRP 297
Db 233 ACQDSDSGGLVCEBGRWFQAGITSPFGGRRNRPVFTAVATYAMIREQWMSRP 290
QY 298 APTPOKTOSD---CLHQTAFLDS-ARILRLPSHSVGVSTGTSLVPLMSPH 346
Db 291 RVDPQTESQDPBNLCGSHLAFSSAPAGQLRPLPLGLALG---WL 340

```

RESULT 13

```

US-10-042-865-153
; Sequence 153, Application US/10042865
; Publication No. US20040029216A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Li, Li
; APPLICANT: Zexhusen, Bryan D
; APPLICANT: Casman, Stacie J
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zhong, Mei
; APPLICANT: Gangoli, Esha A
; APPLICANT: Burgess, Catherine E
; APPLICANT: Patturajan, Meera
; APPLICANT: Vernet, Corine A.M
; APPLICANT: Taylor, Sarah
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Miller, Charles E
; APPLICANT: Guo, Xiaojia
; APPLICANT: Boldog, Ference L
; APPLICANT: Grosse, William M
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Ellerman, Karen
; APPLICANT: MacDougall, John
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Miller, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glennnda
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, David
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-537

```

```

FILE REFERENCE: 21402-537
CURRENT APPLICATION NUMBER: US/10/042,865
CURRENT FILING DATE: 2002-05-17
PRIOR APPLICATION NUMBER: 60/260,417
PRIOR FILING DATE: 2001-01-09
PRIOR APPLICATION NUMBER: 60/260,831
PRIOR FILING DATE: 2001-01-10
PRIOR APPLICATION NUMBER: 60/272,338
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 60/274,876
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 60/284,704
PRIOR FILING DATE: 2001-04-18
NUMBER OF SEQ ID NOS: 264
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 153
LENGTH: 339
TYPE: PRT
ORGANISM: Mus musculus
US-10-042-865-153

```

```

Query Match      32.3%; Score 630.5; DB 12; Length 339;
Best Local Similarity 41.7%; Pred. No. 2.3e-46;
Matches 145; Conservative 48; Mismatches 138; Indels 17; Gaps 9;

```

```

QY 1 MAOKVTLGGGQLGAVANSYSYLYGVPSG-PARG-PFYCGRP-EPSARIYGGSNAPGT 57
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MALRVGLGIGLEAVT---ILLILGLQGIRADGEGASGAVIQP--RITGGGSKPQ 55
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 58 WPMQVSIHHGGGHIICGSLIAPSWVLSAACHFMTNGTLEPAEWSYTLGVHSODGPELDA 117
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 56 WPMQVSIYTDGNHVCGLSVSNKMWVSAACHFPRHSRE---AYEVLGAHQDLSYNT 112
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 118 HTRAVALVVPANYSQVELGADIALRLASPASLGPVAVPVCIPRASHRFVHGTAQWATG 177
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 113 VHTVAQIITTHSSYREBSQGDIAFLRLSSPVTFSRYINPICLPANASFPNGLHCTVVG 172
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 178 WGVQVADPLPLPWLVOEVELRLGATQCCYSQGPNNLTQILPGMLCAGYPRGRD 237
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 173 WGVVAPSVSLQTPRPLOQLVPLISRETSCLYNNINAVEBPHITIQODMLCAGYVGGGD 232
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 238 TCQSDSGGLVCEEGGRWFOAGITSPFGCGRRNRPGVFTAVATYEAWIRBOVMGSEPGP 297
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 233 ACQSDSGGLVCEEGGRWFOAGITSPFGCGRRNRPGVFTAVATYEAWIRBOVMGSEPGP 297
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 298 APPTQPKTQSD---CLHQTAFIDSR-ILRLPLSHISVGVSTGYKSL 341
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 291 RVVPQTQESQPDGHLGNHHPVFSSAAPKILRPVLPFLGLTLGLSL 338
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

```

```

RESULT 14
US-10-109-616-2
Sequence 2, Application US/10109616
Publication No. US20030167484A1
GENERAL INFORMATION:
APPLICANT: Allen, Keith D.
TITLE OF INVENTION: TRANSGENIC MICE CONTAINING CHANNEL
FILE REFERENCE: R-490
CURRENT APPLICATION NUMBER: US/10/109,616
CURRENT FILING DATE: 2002-03-28
PRIOR APPLICATION NUMBER: US 60/280,509
PRIOR FILING DATE: 2001-03-29
PRIOR APPLICATION NUMBER: US 60/311,055
PRIOR FILING DATE: 2001-08-08
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 339
TYPE: PRT
ORGANISM: Mus musculus
US-10-109-616-2

```

```

Query Match      32.1%; Score 627.5; DB 14; Length 339;
Best Local Similarity 41.4%; Pred. No. 4.1e-46;
Matches 144; Conservative 48; Mismatches 139; Indels 17; Gaps 9;

```

```

QY 1 MAOKVTLGGGQLGAVANSYSYLYGVPSG-PARG-PFYCGRP-EPSARIYGGSNAPGT 57
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MALRVGLGIGLEAVT---ILLILGLQGIRADGEGASGAVIQP--RITGGGSKPQ 55
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 58 WPMQVSIHHGGGHIICGSLIAPSWVLSAACHFMTNGTLEPAEWSYTLGVHSODGPELDA 117
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 56 WPMQVSIYTDGNHVCGLSVSNKMWVSAACHFPRHSRE---AYEVLGAHQDLSYNT 112
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 118 HTRAVALVVPANYSQVELGADIALRLASPASLGPVAVPVCIPRASHRFVHGTAQWATG 177
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 113 VHTVAQIITTHSSYREBSQGDIAFLRLSSPVTFSRYINPICLPANASFPNGLHCTVVG 172
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 178 WGVQVADPLPLPWLVOEVELRLGATQCCYSQGPNNLTQILPGMLCAGYPRGRD 237
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 173 WGVVAPSVSLQTPRPLOQLVPLISRETSCLYNNINAVEBPHITIQODMLCAGYVGGGD 232
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 238 TCQSDSGGLVCEEGGRWFOAGITSPFGCGRRNRPGVFTAVATYEAWIRBOVMGSEPGP 297
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 233 ACQSDSGGLVCEEGGRWFOAGITSPFGCGRRNRPGVFTAVATYEAWIRBOVMGSEPGP 297
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 298 APPTQPKTQSD---CLHQTAFIDSR-ILRLPLSHISVGVSTGYKSL 341
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 291 RVVPQTQESQPDGHLGNHHPVFSSAAPKILRPVLPFLGLTLGLSL 338
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

```

```

RESULT 15
US-10-042-865-151
Sequence 151, Application US/10042865
Publication No. US20040029216A1
GENERAL INFORMATION:
APPLICANT: Padigaru, Maralidhara
APPLICANT: Li, Li
APPLICANT: Zernusen, Bryan D
APPLICANT: Casman, Stacie J
APPLICANT: Shenoy, Suresh G
APPLICANT: Spylek, Kimberly
APPLICANT: Zhong, Mei
APPLICANT: Gangolli, Asha A
APPLICANT: Burgess, Catherine E
APPLICANT: Paturajan, Meera
APPLICANT: Vermet, Corine A.M
APPLICANT: Taylor, Sarah
APPLICANT: Tchennev, Vellizar T
APPLICANT: Miller, Charles E
APPLICANT: Guo, Xiaojia
APPLICANT: Boldog, Ference L
APPLICANT: Grosse, William M
APPLICANT: Alsobrook II, John P
APPLICANT: Gerlach, Valerie L
APPLICANT: Edinger, Shomik R
APPLICANT: Rothenberg, Mark E
APPLICANT: Ellerman, Karen
APPLICANT: MacDougall, John
APPLICANT: Malvankar, Uriel M
APPLICANT: Millet, Isabelle
APPLICANT: Feyman, John
APPLICANT: Smithson, Glenda
APPLICANT: Gunther, Erik
APPLICANT: Stone, David
TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
FILE REFERENCE: 21402-537
CURRENT APPLICATION NUMBER: US/10/042,865
CURRENT FILING DATE: 2002-05-17
PRIOR APPLICATION NUMBER: 60/260,417
PRIOR FILING DATE: 2001-01-09
PRIOR APPLICATION NUMBER: 60/260,831
PRIOR FILING DATE: 2001-01-10
PRIOR APPLICATION NUMBER: 60/272,338

```


? PRIOR FILING DATE: 2001-02-28
 ? PRIOR APPLICATION NUMBER: 60/274,876
 ? PRIOR FILING DATE: 2001-03-09
 ? PRIOR APPLICATION NUMBER: 60/284,704
 ? PRIOR FILING DATE: 2001-04-18
 ? NUMBER OF SEQ ID NOS: 264
 ? SOFTWARE: PatentIn Ver. 2.1
 ? SEQ ID NO 151
 ? LENGTH: 342
 ? TYPE: prt
 ? ORGANISM: Rattus norvegicus
 US-10-042-865-151

Query Match	31.8%;	Score 621;	DB 12;	Length 342;
Best Local Similarity	40.8%;	Pred. No. 1.5e-45;		
Matches 144;	Conservative 50;	Mismatches 139;	Indels 20;	Gaps 9;

QY	1	MAOKVILPGQICAAVANSYSTYLGVPS--GPAPRPFCGMP-BESATIVGSSNQPQT	57
Db	1	MAIRVGLGLGQLEALF--VLLITELGRIADGTRACGAVIQP--RITGGGSAKPRQ	55
QY	58	WPMQVSLHHGGCHITGGSLIAPSWLSAACHMTNGLTPAABMSVLLGVHSODGPLDCA	117
Db	56	WPMQVSLIYNGHAYGCGLSVSNQMWVSAACHPRERSKE--EYEPKGAHQDLSFSDNI	112
QY	118	HTRAAATVVPANYSQVELGADLTALRLASPSALGAVPVCISPRASHFVHGTACWANG	177
Db	113	VVHTVAQIISHSSVYREBSQGDIALIRLSSPTPSYIRIPICLPANNAFPNGLHCTVIG	172
QY	178	MGDVEADPLPLPFWLQVEYELRLLEGATQCCYSQDGPNNLTQLPMLCAGYPRGRD	237
Db	173	WGHAVPSVLQTPRLQOLEVPLIRETSCLYINNAVEEPHTLQDDMLCAGYVGGKD	232
QY	238	TCQDGGGPLVCEESGRWFQAGITSFSGCGRRNPGVTAATYATIRQVCMGSEPRG	297
Db	233	AQCGSGGPLSLCPIDGLMWTLAGIVSMGDA CGAPNRRGVYTLINSTAYSMHHNV--AEIQP	290
QY	298	AFPIYQPKTQSD--CHQGTAF-LDSARILRLPLSHISVGVSTGTSVLYDPLW	346
Db	291	RVPRDTQSDQDPGHLCNHHVPNNLAAAOQLSPILFLPLSTLTGLRSL--WL	340

Search completed: July 30, 2004, 08:50:52Z
Job time : 48 secs

Blank Sheet

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus.p2n model

Run on: August 4, 2004, 12:26:22 ; Search time 73 Seconds
(without alignments)
2713.938 Million cell updates/sec

Title: US-10-037-417-46

Perfect score: 1953
Sequence: 1 MAQKGVLPQQLGAVANSDS.....TKSLVLPWLSPHSLGLMGF 357

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Xgapop 10.0 , Xgapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-O=/cgn2_1/USPTO_spool_p/USJ0037417/runat_30072004_090754_26584/app_query.fasta_1.519
-DB=Issued_Patents_NA -QEMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOFC=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=Pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US10037417 @CGN 1.1 105 @runat_30072004_090754_26584 -NCPU=6 -ICPU=3
-NO MMAP -LARGEOUTRY -NEG SCORES=0 -WAIT -DSDELOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -MAXN_TIMEOUT=30 -THRAIDS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

1: Issued Patents NA:
2: /cgn2_6/ptodata/2/ina/5A.COMB.seq:
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq:
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:
5: /cgn2_6/ptodata/2/ina/6C.COMB.seq:
6: /cgn2_6/ptodata/2/ina/backfile1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	603.5	30.9	1613	4	US-09-387-375-1 Sequence 1, Appli
2	564.5	28.9	1142	4	US-09-386-642-8 Sequence 8, Appli
3	563.5	28.9	1110	4	US-09-386-653A-1 Sequence 1, Appli
4	562.5	28.8	1212	4	US-09-620-312D-431 Sequence 431, App
5	561.5	28.8	980	4	US-09-023-942A-30 Sequence 30, Appli
6	557	28.5	1130	4	US-09-387-375-8 Sequence 8, Appli
7	550	28.2	1169	4	US-09-386-642-7 Sequence 7, Appli
8	549	28.1	3147	2	US-09-027-337-1 Sequence 1, Appli
9	549	28.1	3147	4	US-09-644-600-1 Sequence 1, Appli
10	549	28.1	3147	4	US-09-644-600-18 Sequence 18, Appli
11	549	28.1	3147	4	US-09-654-600A-1 Sequence 1, Appli
12	549	28.1	3147	4	US-09-654-600A-18 Sequence 18, Appli

13	545	27.9	1378	4	US-09-907-794A-262 Sequence 262, App
14	545	27.9	1378	4	US-09-905-125A-262 Sequence 262, App
15	545	27.9	1378	4	US-09-902-775A-262 Sequence 262, App
16	544	27.9	1430	4	US-09-386-629-1 Sequence 1, Appli
17	538.5	27.6	1081	3	US-09-008-271A-15 Sequence 15, Appli
18	538.5	27.6	1100	4	US-09-907-794A-256 Sequence 256, App
19	538.5	27.6	1100	4	US-09-905-125A-256 Sequence 256, App
20	538.5	27.6	1100	4	US-09-902-775A-256 Sequence 256, App
21	537.5	27.5	1100	4	US-09-023-942A-5 Sequence 5, Appli
22	532	27.2	2152	4	US-09-023-655-157 Sequence 157, App
23	531	27.2	1130	4	US-09-386-653A-8 Sequence 8, Appli
24	530.5	27.2	1094	4	US-09-023-942A-3 Sequence 3, Appli
25	529	27.1	959	4	US-09-023-942A-25 Sequence 25, Appli
26	514	26.3	933	4	US-09-023-942A-29 Sequence 29, Appli
27	513	26.3	1108	2	US-09-016-366A-14 Sequence 14, Appli
28	513	26.3	1108	2	US-08-978-404B-20 Sequence 20, Appli
29	509	26.1	1165	4	US-09-023-942A-28 Sequence 28, Appli
30	507	26.0	1553	4	US-09-280-116-10 Sequence 10, Appli
31	502	25.7	1166	4	US-09-386-629-2 Sequence 2, Appli
32	501	25.7	1103	4	US-09-386-642-59 Sequence 59, Appli
33	497.5	25.5	1605	2	US-09-000-846-1 Sequence 1, Appli
34	497	25.4	1097	2	US-08-978-404B-4 Sequence 4, Appli
35	496.5	25.4	1103	2	US-09-016-366A-24 Sequence 24, Appli
36	495	25.3	2900	2	US-09-027-337-9 Sequence 9, Appli
37	495	25.3	2900	2	US-09-644-600-9 Sequence 9, Appli
38	495	25.3	2900	4	US-09-654-600A-9 Sequence 9, Appli
39	494.5	25.3	1128	2	US-09-016-366A-20 Sequence 20, Appli
40	494.5	25.3	1128	2	US-08-978-404B-15 Sequence 15, Appli
41	494.5	25.3	1137	2	US-09-016-366A-18 Sequence 18, Appli
42	494.5	25.3	1137	2	US-08-978-404B-13 Sequence 13, Appli
43	493.5	25.3	1081	2	US-09-016-366A-22 Sequence 22, Appli
44	493.5	25.3	1081	2	US-08-978-404B-17 Sequence 17, Appli
45	492.5	25.2	1615	4	US-09-820-002-1 Sequence 1, Appli

ALIGNMENTS

RESULT 1	US-09-387-375-1	Sequence 1, Application US/09387375
1	US-09-387-375-1	Patent No. 6485957
2	US-09-387-375-1	GENERAL INFORMATION:
3	US-09-387-375-1	APPLICANT: Darrow, Andrew
4	US-09-387-375-1	APPLICANT: Andrade-Gordon, Patricia
5	US-09-387-375-1	APPLICANT: Qi, Jenson
6	US-09-387-375-1	TITLE OF INVENTION: DNA Encoding the Human Serine
7	US-09-387-375-1	TITLE OF INVENTION: Prolease EOS
8	US-09-387-375-1	FILE REFERENCE: OBT-1031
9	US-09-387-375-1	CURRENT APPLICATION NUMBER: US/09/387,375
10	US-09-387-375-1	CURRENT FILING DATE: 1999-08-31
11	US-09-387-375-1	NUMBER OF SEQ ID NOS: 9
12	US-09-387-375-1	SOFTWARE: PatentIn Ver. 2.0
13	US-09-387-375-1	SEQ ID NO 1
14	US-09-387-375-1	LENGTH: 1613
15	US-09-387-375-1	TYPE: DNA
16	US-09-387-375-1	ORGANISM: Homo sapiens
17	US-09-387-375-1	Alignment Scores:
18	US-09-387-375-1	Pred. No.: 1.7e-40
19	US-09-387-375-1	Score: 603.50
20	US-09-387-375-1	Length: 1613
21	US-09-387-375-1	Matches: 139
22	US-09-387-375-1	Percent Similarity: 50.00%
23	US-09-387-375-1	Conservative: 38
24	US-09-387-375-1	Best Local Similarity: 39.27%
25	US-09-387-375-1	Mismatches: 129
26	US-09-387-375-1	Query Match: 30.90%
27	US-09-387-375-1	Indels: 48
28	US-09-387-375-1	Gaps: 7
29	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
30	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
31	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
32	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
33	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
34	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
35	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
36	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
37	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
38	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
39	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
40	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
41	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
42	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
43	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
44	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	
45	US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)	

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Db      210 TGGCCGTGGCAGGCGACATCCAGACTCTGGGGCAGACGTGGGGGGGGGCGCTGCTCATC 269
QY      78 A1aProSerTrpValIleuSerAlaIaHisCysPheMetThrAsnGlyThrIleuGluPro 97
Db      270 GCGCCCGCAGTGGGTGTCTGACAGGGCGGCACTGCTTCCAGAGGAGGCACTG----- 320
QY      98 A1aA1aGluTrpSerValIleuIleuGlyValHisSerGlnAspGlyProIleuAspGlyAla 117
Db      321 CCAGCTGAGTACCGCGTGGCGCTGGGGGGGGGCGTGGCTGGGGCTCCACTTCGCGCCGACG 380
QY      118 HisThrArgAlaValAlaIaIleValAlaProAlaAsnTrpSerGlnValGluIleuGly 137
Db      381 CTTCTGGTCCCGCTGGAGCGGGTGTCTGGCCCGCGACTACTCCGAGAGACGGGGCGCCG 440
QY      138 A1aAspLeuAlaIleuIleuArgIleuAlaSerProAlaSerIleuGlyProAlaValTrpPro 157
Db      441 GGGGACCTGGCACTGCTGGACGCTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 500
QY      158 ValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAlaThrGly 177
Db      501 GTCTGCTTCCCGCTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 560
QY      178 TrpGlyAspValGlnGlnIaAspProIleuProIleuProTrpValIleuGlnIaGlu 197
Db      561 TGGGGCAGCGCTCCGCGCGAGAGTGGCCCTCCAGAGTGGGACCGCTTACAGAGAGTAAAG 620
QY      198 LeuAlaGlyLeuIleuGlyAlaThrCysGlnCysLeuTrp-----SerGlnPro 213
Db      621 GGGCGCGCTCTGACACCGCGCACTCCGACGCGCTCTACCACTGGGCGCGCGAGCGCGCC 680
QY      214 GlyProPheAsnIleuThrIleuGlnIleuProGlyMetLeuCysAlaGlyTrpProGlu 233
Db      681 CAGCGTGAAGCGCAT-----GTGCTGCTGGAGATGTGTGTGTGCTGCGCTACCCCG 731
QY      234 GlyArgArgAspThrCysGlnIleuAspSerGlyGlyProIleuValCysGlnIleuGly 253
Db      732 GGGCACAAGAGAGCGCTGGCAGGGGTGATTTCTGGGGGACCTTGACCTGCGCTGAGCTGG 791
QY      254 ArgTrpPheGlnAlaGlyIleuTrpSerPheGlyPheGlyCysGlyArgArgAsnAlaPro 273
Db      792 AGCTGGGTCTCGTGGTGGCGGTGAGCTGGGGCAGAGGGTGTGCTCCCTGCCCAACCTTCA 851
QY      274 GlyValPheThrAlaValAlaThrTrpArgAlaAlaTrpIleuArgGlnIleuValMetGlySer 293
Db      852 GGGGTCTACACAGTGGTGGCACAATAAGCCCTGGATTCAGGCTGCGCTCATTTAAT 911
QY      294 Glu-----ProGly----- 296
Db      912 GCTAGCCGCTGAGGCTGAGCGAGCGAGCTGGGGGTCCCTCAGCCTCTGTTCAATC 971
QY      297 -----ProAlaPhe-ProThrGlnProGlnTrpIleuSerAspCysLeuHisGlnIle 314
Db      972 CAGGCACTGCTCATATCCCAATCCCTTCTGCTGGAGGCAAGATGCTTAATAAAG-- 1029
QY      314 rAlaPheLeuAspSerAlaArgIleuIleuIleuArgProIleuSerHisIleSerValGlyVa 334
Db      1030 -----CTAAAGGCCAACCCACCCCAACCCCAACCCCACTTGTGCTCTCT 1073
QY      334 lSerThrGlyThrIleuSerIleuValIleuProTrpIleuSer----- 347
Db      1074 CCTCTTGGGGATCATCAGGCTGAGCTCCACCAACCTCATCCAGAGATTCGCATAGAT 1133
QY      348 -----ProHisSerIleuIleuGlyLeuTrp 355
Db      1134 CCCAGGAGTACACTCCCACTCCCTTCTGGCTTGTAT 1173

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; APPLICANT: OJ, Jensen
; APPLICANT: Andrade-Gordon, Patricia
; TITLE OF INVENTION: Zymogen Activation System
; FILE REFERENCE: ORT-1028
; CURRENT APPLICATION NUMBER: US/09/386,642
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 8
; LENGTH: 1142
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Fusion gene
; OTHER INFORMATION: with homo sapien serine protease catalytic domain
US-09-386-642-8

Alignment Scores:
Pred. No.: 1,7e-37 Length: 1142
Score: 564.50 Matches: 124
Percent Similarity: 52.81% Conservative: 45
Best Local Similarity: 38.75% Mismatches: 126
Query Match: 28.908 Indels: 25
DB: Gaps: 4

US-10-037-417-46 (1-357) x US-09-386-642-8 (1-1142)

QY      17 AenSerAspSerTrpSerIleuTrpGlyLeuValProSerGlyProAlaArgGlyProPro 36
Db      2 AATTCACCAACCAAGGTTTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 61
QY      37 Tyr--CysGlyArgPro----- 41
Db      62 TGGCGTGGGGGGTCCCCCACTACAGAGACGACGACGCGCGCGCTGTGCGCCCT 121
QY      42 --GluProSerAlaArgIleuValGlyGlySerAsnAlaGlnProGlyThrProTrp 61
Db      122 TGTATGATGATGACAAGATCGTTGGGGCTATGCTTACAGGCGCGGTGAGTGGCCCTG 181
QY      61 lValSerIleuHisIleuGlyGlyHisIleCysGlyGlySerIleuIleAlaProSer 81
Db      182 AGTTCAGCACTACCTATGAGGCTTCATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 241
QY      81 rValIleuSerAlaIaHisCysPheMetThrAsnGlyThrIleuGluProAlaIaGluTr 101
Db      242 GGGTCTGTCAAGCTGTCTCACTGCTTCCCAAGGAGACCAAGAA-----GCTT 292
QY      101 rPseValIleuIleuGlyValHisSerGlnAspGlyProIleuAspGlyAlaHisThrArg 121
Db      293 ATGAGGTCAAGCTGGGGGGCCCAACAGCTAGACTCTTACGAGGACGCGCAAGGTCA 352
QY      121 lValAlaIaIleValAlaProAlaAsnTrpSerGlnValGluIleuGlyAlaAspLeu 141
Db      353 CCTTGAAGACATCATCCCCCAACCCCACTACCTCAGAGGGCTCCAGGGGAGACATG 412
QY      141 lAluIleuArgIleuAlaSerProAlaSerIleuGlyProAlaValTrpProValCysLeu 161
Db      413 CACTCTCCACATCGACAGAACCACTTCTCCCGGTATACATCGAGCCATGTGCTCC 472
QY      161 rAlaArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAlaThrGlyTrpGlyAsp 181
Db      473 CTGACAGCAACGCTCTCTCCCAACGCGCTCCACAGCACTGTACATGCTGGGGTCA 532
QY      181 a1GlnGluIaAspProIleuProIleuProTrpValIleuGlnIleuValGluIleuArg 201
Db      533 TGGCCCCCTCAGTGAAGCTTCTGAGCCCAAGCACTGACAGCACTCGAGGTGCTCTGA 552
QY      201 euGlyGluIaThrCysGlnCysLeuTrpSerGlnProGlyProPheAsnIleuThrIleu 221
Db      593 TCAGTGTGAGAGCTTAATGCTGTACACAATCAGCCAAAGCTTGAGAGACCGCACT 652
QY      221 lIleuIleuProGlyMetLeuCysAlaGlyTrpProGluGlyArgArgAspThrCysGln 241

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RESULT 2
US-09-386-642-8
; Sequence 8, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
; APPLICANT: Darrow, Andrew

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Db 653 TTGTCCAGAGGACATGCTGTCTGCTATGTGAGGGGGCAAGACGCTGCCAGG 712
Qy 241 TAAASerGlyGlyProLeuValCysGluGluGlyArgTrpPheGlnAlaGlyIleT 261
Db 713 GTGACTCTGGGGGCCACCTCTCTGCGCTGTGAGAGGTCTGTGATACCGAGAGGCAATTG 772
Qy 261 hSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyValPheThrAlaValAlaT 281
Db 773 TGAGCTGGGAGATGCTGTGGGGCCCGCAGACAGGCTGTGTACTCTGGGCTTCA 832
Qy 281 hTrpGluAlaTrpIleArgGluGlnValMetGlySerGluProGlyProAlaPheProT 301
Db 833 GGTAGCTCTCTCGATCCAAAGCAGTG-----ACAGAACTCCAGCTCTGTGTGTC 886
Qy 301 hGlnProGluTrpGlnSerAsp-----CysLeuHisGlnThrAlaPhe 316
Db 887 CCCAAACCAAGAGATCCAGCCGACAGCAACCTCTGTGTGAGCAGCAGCTGGCTTC 942

RESULT 3

US-09-386-653A-1
; Sequence 1, Application US/09386653A
; Patent No. 6458564
; GENERAL INFORMATION:
; APPLICANT: Andrade-Gordon, Patricia
; APPLICANT: Darrow, Andrew
; APPLICANT: Qi, Jian-shen
; TITLE OF INVENTION: DNA encoding the novel human serine
; FILE REFERENCE: ORT-1032
; CURRENT APPLICATION NUMBER: US/09/386,653A
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1110
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-386-653A-1

Alignment Scores:

Pred. No.:	1,97e-37	Length:	1110
Score:	563.50	Matches:	128
Percent Similarity:	51.28%	Conservative:	32
Best Local Similarity:	41.03%	Mismatches:	121
Query Match:	28.85%	Indels:	32
	4	Gaps:	9

US-10-037-417-46 (1-357) x US-09-386-653A-1 (1-1110)

Qy 32 AAlaArgGlyProProTyrCysGlyArgProGluProSerAlaArgIleValGlyIleSer 51
Db 93 GCCAAGGCGAGCAACGCTGTGTGTGCCCCAGATGCTGAACCGAATGTGGGGCGCAG 152
Qy 52 AsnAlaGlnProGlyThrTrpProTrpGlnValSerLeuHisGlyGlyHisIle 71
Db 153 GACACGCGAGGAGGGGAGTGGCCCTGGGAAGTCAGACATCCAGCCGAAACGAGGCACTTC 212
Qy 72 CysGlyGlySerLeuIleAlaProSerTrpValLeuSerAlaAlaHisCysPheMetThr 91
Db 213 TGGGGGGGCAACCTCATGCGGAGACAGTGGTCTGTACGGCTGTGGCACTGCTTC----- 266
Qy 92 AsnGlyThrLeuGluProAlaAlaGluTrpSerValLeuGluValHisSerGlnAsp 111
Db 267 CGCAACACCTCTGAGACGCTCCCTG---TACCAGGTCCCTGTGGGGGCAAGGCACTAGTG 323
Qy 112 GLyProLeuAspGlyAlaHisThrArgAlaValAlaIleValAlaProAlaAsn--- 130
Db 324 CAGCTCG-----GACCAACACGCTATGTATGCCGGGTGAGGAGGAGGAGCAACCCC 377
Qy 131 ---TyrSerGlnValGluLeuGlyAlaAspLeuAlaLeuLeuAspGlyLeuAlaSerProAla 149
Db 378 CTGTAACCAAGGCGAGGCTCCAGGCTGACCTGTGCTGCTGTGGAGCTGGAGGCACTAGTG 437

Qy 150 SerLeuGlyProAlaValTrpProValCysLeuProAlaGlnAlaSerHisArgPheValHis 169
Db 438 CCCTTCAACCAATTACATCTCCCGGTGTGCTGTGACCCCTCGGTATCTTTGAGAG 497
Qy 170 GLyThrAlaCysTrpAlaThrGlyTrpGlyAspValGlnGluAlaAspProLeuProLeu 189
Db 498 GGCATGAACCTGTGGTCACTGGCTGGGGCAGGCCCAAGTGAAGGAACCTCTGGCCGAA 557
Qy 190 ProTrpValLeuGlnGluValGluLeuArgLeuGluGlnAlaThrCysGlnCysLeu 209
Db 558 CCGCGAGATCTCGCAAACTGCTGTGTGCTGATCATGACACACCAAGTGCACACTGCT 617
Qy 210 TyrSerGlnProGlyProPheAsnLeuThrLeuGlnIleLeuProGly---MetLeuCys 228
Db 618 TACAGCAAAAGACACCGAGTTGGCTACCAACCCCAAAACATCAAGATGACATGCTGTGC 677
Qy 229 AlaGlyTrpProGluGlyArgArgAspThrCysGlnGlyAspSerGlyValProLeuVal 248
Db 678 GCCGCTTCAGAGGAGGCGAAGAGATGCTGCAAGGGCAGACTGGGGCGGCCCTGTGTG 737
Qy 249 CysGluGluGlyArgTrpPheGlnAlaGlyIleThrSerPheGlyPheGlyCysGly 268
Db 738 TGCTCTCGGGTCACTGTGTGTGCTGAGCGGGGGATGATCACTGGGGTGAAGGCTGTGCC 797
Qy 269 ArgArgAsnArgProGlyValPheThrAlaValAlaThrTrpGluAlaTrpIleArgGlu 288
Db 798 CGCCAGAACCCGCCAGGAGTGTCTACATCCGTGTCAAGCCGCCACCAACTGTGATCATCGG 857
Qy 289 -----GlnValMetGlySerIle-----Pro 295
Db 858 ATCATCCCAAACTGCAAGTTCGA-GCCAGCAGGTGGGGCGGCGCAAGAGTAGACCCCTG 916
Qy 296 GLyProAlaPhePro-----ThrGlnProGluTrpGlnSerAspCys 310
Db 917 GGGCCAGAGAGCCCTTGTAGCAGAGACTGTGCACCCAGCCTGTGCCCGCCCA----- 964
Qy 311 LeuHisGlnThrAlaPheLeuAspSerAlaArgIle 322
Db 965 ---CACCATCTGTGCTGTGCTCCCAAGCGCTGTCTGT 997

RESULT 4

US-09-620-312D-431
; Sequence 431, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yundong
; APPLICANT: Wang, Dunhui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6569662e1 Nucleic Acids and
; FILE REFERENCE: 784CTP28
; CURRENT APPLICATION NUMBER: US/09/620,312D
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt_genes Version 1.0


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QY      58 TTPProTTPGlnValSerLeuHisHisGlyGlyHisHisCysGlyGlySerLeuLeu 77
      63 TGGCCCTGGCAAGTACGATCCAGCGCAACGGAGCACTTTCGGGGGCGAGCCCTCATC 122
QY      78 AlaProSerTTPValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeuGluPro 97
      123 GGGAGCACTGGGTCTGACGGCTGGCACTGCTTC-----CGCAACCACTCTTAGACG 176
QY      98 AlaAlaGluTTPSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAspGlyAla 117
      177 TCCCTG---TACCAGTCTGCTGCTGGGGGCAAGGCACTAGTCCAGCG-----GGACCA 227
QY      118 HisThrArgAlaValAlaAlaIleValValProAlaAsn-----TyrSerGlnValGlu 135
      228 CACGCTATGTATGCCGGGTGAGCGAGTGGAGAGAACCCCTGTACAGGCGACGGCC 287
QY      136 LeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaVal 155
      288 TCCAGCGCTGACGTGGCCCTGGGTGAGCTGGAGGCACTGTCCTTCAACCAATTACATC 347
QY      156 TTPProValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysThrAla 175
      348 CTCCTCCGATGTGCTGCTGACCCCTCGGTGATCTTGGAGCGGGCACTGCTGGGTC 407
QY      176 ThrGlyTTPGlyAspValGlnGlnAlaAspProLeuProLeuProTTPValLeuGlnGlu 195
      408 ACTGGCTGGGCGAGGCCCGCATGTAGAGAACCTCTGCCCGAACCGGGATCTCGCAAAA 467
QY      196 ValGluLeuArgLeuLeuGlyGluAlaThrCysGlnCysLeuTyrSerGlnProGlyPro 215
      468 CTCGCTGTGCTCCCATCTGACACACCCCAAGTGCACCTGCTTACAGCAAAAGACCCGAG 527
QY      216 PheAsnLeuThrLeuGlnIleLeuProGly---MetLeuCysAlaGlyTyrProGlnGly 234
      528 TTGGCTACCAACCCAAACCAATCAAGAAATGACATGCTGTGCGCGGCTTCAGAGAGGGC 587
QY      235 ArgArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGlnGlyArg 254
      588 AAGAAGATGCTGCAAGGCGACCTCGGGCGGCCCTGTGTGCTGTGGTCAATGTC 647
QY      255 TTPPheGlnAlaGlyIleHisSerPheGlyPheGlyCysGlyArgArgAsnArgProGly 274
      648 TGGCTGACGGCGGGGTGATGATCAGCTGGGTGAGGGCTGTGCCCGCAGAACCGCCAGGT 707
QY      275 ValPheThrAlaValAlaThrTyrGlnAlaTTPIleArgGlu-----Gln 289
      708 GTTACATCTCGTGTACCGGCCACCACTGATTCATCGGATCATCCCAACTGCAG 767
QY      290 ValMetGlySerGlu-----ProGlyProAlaPhePro--- 300
      768 TTCCA-GCCAGCGAGGTTGGGGGCGCAAGAGAGAACCCCGGGGCGCAGAACCCCTTGA 826
QY      301 -----ThrGlnProGlnIysThrGlnSerAspCysLeuHisGlnThrAlaPhe 316
      827 GCAGAGCTCTGCACCCAGCTGCGCCGCCA-----CACCATCTCTGTGT 871
QY      317 LeuAspSerAlaArgIle 322
      872 CTTCCCAAGCGCTGTGT 889

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; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 8
; LENGTH: 1130
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic acid
; US-09-387-375-8

Alignment Scores:
Pred. No.: 6.91e-37 Length: 1130
Score: 557.00 Matches: 114
Percent Similarity: 56.63% Conservative: 27
Best Local Similarity: 45.78% Mismatches: 98
Query Match: 28.52% Indels: 10
DB: Gaps: 3

US-10-037-417-46 (1-357) x US-09-387-375-8 (1-1130)

QY      46 ArgIleValGlyGlySerHisAlaGlnProGlyThrTTPProTTPGlnValSerLeuHis 65
      163 AAGATCGTGGGGGCTATGCTCTAGAGACGAGAGTGCCCTGGCAGCGCATCCAG 222
QY      66 HisGlyGlyGlyHisIleCysGlyGlySerLeuIleAlaProSerTTPValLeuSerAla 85
      223 CATCTGGGGGACACAGCTGTGGGGGGGTGCTCATTCGCCCCCAAGTGGGTGCTGACAGCG 282
QY      86 AlaHisCysPheMetThrAsnGlyThrLeuGlnProAlaAlaGluTTPSerValLeuLeu 105
      283 GCGACCTGCTTCCCGAGAGGAGCACTG-----CCAGCTGAGTACCGCGTGGCGCTG 333
QY      106 GlyValHisSerGlnAspGlyProLeuAspGlyAlaHisThrArgAlaValAlaIle 125
      334 GGGGGCGCTGCTGGGGCTCCACCTGCCCGCAGCGCTCTGTCGCCGTGGAGCGGTG 393
QY      126 ValValProAlaAsnTyrSerGlnValGluLeuGlyAlaAspLeuAlaLeuLeuArgLeu 145
      394 CTGCTGCCCGCGAATCTATCCGAGAGCGGGCGCGGCGACCTGGCACTGCTGACGCTG 453
QY      146 AlaSerProAlaSerLeuGlyProAlaValTTPProValCysLeuProArgAlaSerHis 165
      454 CGTGGCCCGGTGCCCTGAGGCGCTGCGTCCACCGCTGCTGCTGCCCGCGCGCC 513
QY      166 ArgPheValHisGlyThrAlaCysTTPAlaThrGlyTTPGlyAspValGlnGlnAlaAsp 185
      514 CGCCCGCGCGCGGACACATGCGGGTCAACCGGCTGGGGCAGGCTCGCCAGAGATG 573
QY      186 ProLeuProLeuProTTPValLeuGlnGluValGluLeuArgLeuLeuGlyGlnAlaThr 205
      574 CCCCCTCCAGAGTGGCGACCGCTACAGAGATGAGGTGCGCTGTGATCGCGGACCC 633
QY      206 CysGlnCysLeuTyr-----SerGlnProGlyProPheAsnLeuThrLeuGln 221
      634 TCCAGCGGCTCTTACCACTGGGGCGGACGCGGCCAGGCTGAGCGCATT----- 684
QY      222 IleLeuProGlyMetLeuCysAlaGlyTyrProGlnGlyArgArgAspThrCysGlnGly 241
      685 GTGCTGCTGGAGTGTGTGTGTGCGGCTTACCCCGAGGGCGACAGAGAGCGCTGCCAGGT 744
QY      242 AspSerGlyGlyProLeuValCysGlnGlnGlyArgTTPPheGlnAlaGlyIleThr 261
      745 GATTCTGGGGGACCTCTACCTGCTGACGCTGAGCTGGAGCTGTGCTGTGGCGGTG 804
QY      262 SerPheGlyPheGlyCysGlyArgArgAsnArgProGlyValPheThrAlaValAlaThr 281
      805 AGCTGGGGCAAGGGTGTGCTGCTGCCCAACCGTCCAGGGGTCTACACAGATGTGCCACA 864
QY      282 TyrGlnAlaTTPIleArgGlnGlnVal 290
      865 TATAGCCCTGGATTCAGGCTGCGTC 891

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; Sequence 8, Application US/09387375
; Patent No. 6485957

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; GENERAL INFORMATION:

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```

; APPLICANT: Darrow, Andrew

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; APPLICANT: Andrade-Gordon, Patricia

```

```

; APPLICANT: Qi, Jensen

```

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; TITLE OF INVENTION: DNA Encoding the Human Serine

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; TITLE OF INVENTION: Proteinase B05

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; CURRENT APPLICATION NUMBER: US/09/387,375

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QY 129 AlaSerIYSerGlnValGlnLeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerPro 148
Db 2123 CCCTCTTCATAGACTTCACTTCCAGCATATGACATCGCGCTGGAGCTGGAGAAACCG 2182
QY 149 AlaSerLeuGlyProAlaValTrpProValCysLeuProAlaGlnAspHisArgPheVal 168
Db 2183 GCAAGATACAGCTCCATGATGGGCGGCTGCTGGCGGAGCGCTCCCATGCTCTTCCCT 2242
QY 169 HisGlyThrAlaCysTrpAlaThrGlyTrpGlyAspValGlnGlnAlaAspProLeuPro 188
Db 2243 GCCGCAAGGCCATCTGGGTACACGGCTGGGACACACCCAGTATGAGGACACTGGCGCG 2302
QY 189 LeuProTrpValLeuGlnGlnValGlnLeuArgLeuLeuGlyAlaThrCysGlnCys 208
Db 2303 CTG-----ATCCCTCAAAAGGGGTAGATCCGCGTCATCAACCAAGACACCTGGAGAAC 2356
QY 209 LeuTrpSerGlnProGlyProPheAsnLeuThrLeuGlnIleLeuProGlyIleLeuLeu 228
Db 2357 CTCTGCCGCGAG-----CAGATCAAGCGCGCGCATGATGTGTC 2392
QY 229 AlaGlyTrpProGlnGlyArgArgAspThrCysGlnGlyAspSerGlyIleProLeu--- 247
Db 2393 GTGGCTTCTCCACGGCGCGCGCTGACCTCTCCAGGCTGATTCGGGGGACCCCTGTCC 2452
QY 248 ValCysGlnGlnGlyGlyArgTrpPheGlnAlaGlyIleThrSerPheGlyPheGlyCys 267
Db 2453 AGCGTGAAGCGGATGGGCGGATCTTCCAGCGCGGTGATGAGCTGGGAGAGACGGCTGC 2512
QY 268 GlyArgArgAsnArgProGlyValPheThrAlaValAlaThrTrpGlnAlaTrpIleArg 287
Db 2513 GCTCAGAGAAACAAAGCCAGCGCTGTACCAAGGCTCCCTGTCTTCGGGACTGGATCAAA 2572
QY 288 GlnGlnValMetGlySerGlnProGlyProAlaPheProThrGlnProGlnIleThrGln 307
Db 2573 GAGAAACACTGGGGGTATAGGGCGGGGCCA----- 2602
QY 308 SerAspCysLeuHis 312
Db 2603 CCCAAATGTGTACAC 2617

RESULT 9
US-09-644-600-1
; Sequence 1, Application US/09644600
; Patent No. 6451500
; GENERAL INFORMATION:
; APPLICANT: O'Brien, Timothy J.
; APPLICANT: Tanimoto, Hirotooshi
; TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease
; FILE REFERENCE: D6064CIP/D
; CURRENT APPLICATION NUMBER: US/09/644,600
; PRIOR FILING DATE: 1999-10-23
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: 09/027,337
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 1
; LENGTH: 3147
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; OTHER INFORMATION: TADG-15
US-09-644-600-1

Alignment Scores:
Pred. No.: 1.26e-35 Length: 3147
Score: 549.00 Matches: 118
Percent Similarity: 51.80% Conservative: 40
Best Local Similarity: 38.69% Mismatches: 103
Query Match: 28.11% Indels: 44
DB: 4 Gaps: 8

US-10-037-417-46 (1-357) x US-09-644-600-1 (1-3147)
QY 32 AlaArgGlyProProGlyCysGlyArgProGlnPro----- 43
Db 1763 AGCAAGGCAACCTTGAAGTGTACGGGAGGAGGACTGTACGACCGCTCAGATGAGAG 1822
QY 44 -----SerAlaArgIleValGlyIleSerAsn 52
Db 1823 GACTGCACTGTGGGCTGGCGGTCACTTCCAGAGAGAGGCTCGTGTGTGGGGGACCGAT 1882
QY 53 AlaGlnProGlyIleThrTrpProGlnValSerLeuHisHis-----GlyGlyIleHisIle 71
Db 1883 GCGATGAGGCGGAGTGGCCCTGTGAGGTAAAGCTTCAAGCTCTGGGGCCAGGGCCACATC 1942
QY 72 CysGlyGlySerLeuIleAlaProSerTrpValLeuSerAlaAlaHisCysPheMetThr 91
Db 1943 TGGGCTGTCTCCATCATCTCTCCACACTGGCTGTGTGCGGACACTGTGCTACATCAT 2002
QY 92 AsnGly-----ThrLeuGlnProAlaAlaGluTrpSerValLeuLeuGlyValHisSer 109
Db 2003 GACAGAGATTCAGGTACTCAGACCCCAAGAGTGGAGCGGCTTCTGGGCTTGCACAGC 2062
QY 110 Gln---AspGlyProLeuAspGlyAlaHisThrArgAlaValAlaAlaIleValPro 128
Db 2063 CAGAGCCAGCGCAGCGCCCTGGGGGTGAGAGAGCCAGGCTTCAAGCATCATCTCCAC 2122
QY 129 AlaSerIYSerGlnValGlnLeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerPro 148
Db 2123 CCCTCTTCATAGACTTCACTTCCAGCATATGACATCGCGCTGGAGCTGGAGAAACCG 2182
QY 149 AlaSerLeuGlyProAlaValTrpProValCysLeuProAlaGlnAspHisArgPheVal 168
Db 2183 GCAAGATACAGCTCCATGATGGGCGGCTGCTGGCGGAGCGCTCCCATGCTCTTCCCT 2242
QY 169 HisGlyThrAlaCysTrpAlaThrGlyTrpGlyAspValGlnGlnAlaAspProLeuPro 188
Db 2243 GCCGCAAGGCCATCTGGGTACACGGCTGGGACACACCCAGTATGAGGACACTGGCGCG 2302
QY 189 LeuProTrpValLeuGlnGlnValGlnLeuArgLeuLeuGlyAlaThrCysGlnCys 208
Db 2303 CTG-----ATCCCTCAAAAGGGGTAGATCCGCGTCATCAACCAAGACACCTGGAGAAC 2356
QY 209 LeuTrpSerGlnProGlyProPheAsnLeuThrLeuGlnIleLeuProGlyIleLeuLeu 228
Db 2357 CTCTGCCGCGAG-----CAGATCAAGCGCGCGCATGATGTGTC 2392
QY 229 AlaGlyTrpProGlnGlyArgArgAspThrCysGlnGlyAspSerGlyIleProLeu--- 247
Db 2393 GTGGCTTCTCCACGGCGCGCGCTGACCTCTCCAGGCTGATTCGGGGGACCCCTGTCC 2452
QY 248 ValCysGlnGlnGlyGlyArgTrpPheGlnAlaGlyIleThrSerPheGlyPheGlyCys 267
Db 2453 AGCGTGAAGCGGATGGGCGGATCTTCCAGCGCGGTGATGAGCTGGGAGAGACGGCTGC 2512
QY 268 GlyArgArgAsnArgProGlyValPheThrAlaValAlaThrTrpGlnAlaTrpIleArg 287
Db 2513 GCTCAGAGAAACAAAGCCAGCGCTGTACCAAGGCTCCCTGTCTTCGGGACTGGATCAAA 2572
QY 288 GlnGlnValMetGlySerGlnProGlyProAlaPheProThrGlnProGlnIleThrGln 307
Db 2573 GAGAAACACTGGGGGTATAGGGCGGGGCCA----- 2602
QY 308 SerAspCysLeuHis 312
Db 2603 CCCAAATGTGTACAC 2617

RESULT 10
US-09-644-600-18/c
; Sequence 18, Application US/09644600
; Patent No. 6451500
; GENERAL INFORMATION:
; APPLICANT: O'Brien, Timothy J.
; APPLICANT: Tanimoto, Hirotooshi

```

; TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease
; TITLE OF INVENTION: Overexpressed in Carcinomas
; FILE REFERENCE: D0604CIP/D
; CURRENT APPLICATION NUMBER: US/09/644,600
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 09/421,213
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: 09/027,337
; PRIOR FILING DATE: 1998-02-20
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 18
; LENGTH: 3147
; TYPE: RNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Antisense of TADG-15
; US-09-644-600-18

Alignment Scores:
Pred. No.: 1,26e-35 Length: 3147
Score: 549.00 Matches: 118
Percent Similarity: 51.80% Conservative: 40
Best Local Similarity: 38.69% Mismatches: 103
Query Match: 28.11% Indels: 44
Gaps: 8

US-10-037-417-46 (1-357) x US-09-644-600-18 (1-3147)
QY 32 AlaArgGlyProProGlyrCysGlyArgProGluPro----- 43
Db 1385 AGCAAGAGGCAACCTGAGTGTGACGGGAGAGAGACTGTAGCGACGGCTCAGATGAGAG 1326
QY 44 -----SerAlaArgGlyValGlyGlySerAsn 52
Db 1325 GACTGCAGCTGTGGGCTGCCGATTCACGACAGAGCTGTGTGTGTGGGGCAGCGAGT 1266
QY 53 AlaGlnProGlyThrTrpProTrpGlnValSerLeuHisHis---GlyGlyGlyHisIle 71
Db 1265 GCGGATGAGGGGAGGTGGCCCTGGCAGGTAGGCTGATCTGTGGGCCAGGCCACATC 1206
QY 72 CysGlyGlySerLeuIleAlaProSerTrpValLeuSerAlaAlaHisCysPheMetThr 91
Db 1205 TGGGGTCTTCCTCATCTCTCCCAACTGCTGCTGCTGCTGCCACACAGCTCATCTCAT 1146
QY 92 AsnGly-----ThrLeuGluProAlaAlaGluTrpSerValLeuLeuGlyValHisSer 109
Db 1145 GACAGAGGATTACGGTACTCAGACCCACGACGAGTGAAGCGCTTCTGGGCTTGCAGAC 1086
QY 110 Gln---AspGlyProLeuAspGlyAlaHisThrArgAlaValAlaIleValValPro 128
Db 1085 CAGAGCCAGGCGAGCGCCCTGGGGTGCAGGAGCGAGGCTCAAGGCGCATCATCTCCAC 1026
QY 129 AlaAsnTrpSerGlnValGluLeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerPro 148
Db 1025 CCCTTCTCATACTACTCACCCTTCGACTGACATGACATGCGCTGCTGCAGGCTGAGAAACG 966
QY 149 AlaSerLeuGlyProAlaValTrpProValCysLeuProArgAlaSerHisArgPheVal 168
Db 965 GCAAGATACAGCTCCATGTCGGCCCATCTGCTGCCAGCCCTCCCATGCTTCCCT 906
QY 169 HisGlyThrAlaCysTrpAlaThrGlyTrpGlyAspValGlnGluAlaAspProLeuPro 188
Db 905 GCGGAGAGGCGCATCTGGGTCAAGGGCTGGGGACACACCAGTATGAGAGCACTGGCGCG 846
QY 189 LeuProTrpValLeuGlnValGluLeuArgLeuLeuGlyAlaThrCysGlnCys 208
Db 845 CAG-----ATCTGCAAAAGGTGAGATCCCGGTATCAACCAACCACTGCGGAAC 792
QY 209 LeuTrpSerGlnProGlyProPheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCys 228
Db 791 CTCCTCCCGCAG-----CAAGTACGCGCCGCGCATGATGTGC 756
QY 229 AlaGlyTrpProGlnGluValArgArgAspThrCysGlnGlyAspSerGlyGlyProLeu--- 247
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Db 755 GGGGCTCTCTCAGCGCGCGCGGAGCTCTCTCCAGAGGTGATTCGGGGGACCCCTCTCC 696
QY 248 ValCysGlnGluGlyGlyArgTrpPheGlnAlaGlyIleThrSerPheGlyPheGlyCys 267
Db 695 AGCGTGAGGCGGATGGCGGATCTTCCAGGCCGCGTGTGTGATGCGGGAGACGGCTGC 636
QY 268 GlyArgArgAsnArgProGlyValPheThrAlaValAlaThrTrpGluAlaTrpIleArg 287
Db 635 GCTCAGAGGAGACAGCGAGCGGTGTACACAGGCTCTCTGTGTGGGACTGTGATAA 576
QY 288 GluGlnValMetCysSerGluProAlaPheProThrGlnProGlnIleThrGln 307
Db 575 GAGAACACTGGGCTATAGGGGCGGGGCCA----- 546
QY 308 SerAspCysLeuHis 312
Db 545 CCCAATGTGTACAC 531

RESULT 11
US-09-654-600A-1
; Sequence 1, Application US/09654600A
; Patent No. 6649741
; GENERAL INFORMATION:
; APPLICANT: O'Brien, Timothy J.
; TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease
; FILE REFERENCE: D0604CIP/D
; CURRENT APPLICATION NUMBER: US/09/654,600A
; PRIOR FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 09/421,213
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 1
; LENGTH: 3147
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: TADG-15
; US-09-654-600A-1

Alignment Scores:
Pred. No.: 1,26e-35 Length: 3147
Score: 549.00 Matches: 118
Percent Similarity: 51.80% Conservative: 40
Best Local Similarity: 38.69% Mismatches: 103
Query Match: 28.11% Indels: 44
Gaps: 8

US-10-037-417-46 (1-357) x US-09-654-600A-1 (1-3147)
QY 32 AlaArgGlyProProGlyrCysGlyArgProGluPro----- 43
Db 1763 AGCAAGAGGCAACCTGAGTGTGACGGGAGAGAGACTGTAGGAGCGCTCAGATGAGAG 1822
QY 44 -----SerAlaArgGlyValGlyGlySerAsn 52
Db 1823 GACTGCAGCTGTGGGCTGCCGATTCACGACAGAGCTGTGTGTGTGGGGCAGCGAGT 1882
QY 53 AlaGlnProGlyThrTrpProTrpGlnValSerLeuHisHis---GlyGlyGlyHisIle 71
Db 1883 GCGGATGAGGGGAGGTGGCCCTGGCAGGTAGGCTGATCTGTGGGCCAGGCCACATC 1942
QY 72 CysGlyGlySerLeuIleAlaProSerTrpValLeuSerAlaAlaHisCysPheMetThr 91
Db 1943 TGGGGTCTTCCTCATCTCTCCCAACTGCTGCTGCGGACACAGCTCATCTCAT 2002
QY 92 AsnGly-----ThrLeuGluProAlaAlaGluTrpSerValLeuLeuGlyValHisSer 109
Db 2003 GACAGAGGATTACGGTACTCAGACCCACGACGAGTGAAGCGCTTCTGGGCTTGCAGAC 2062
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QY 110 Gln---AspGlyProLeuAspGlyAlaHisThrArgAlaValAlaAlaIleValPro 128
2063 CAGAGCCAGCGCAGCGCCCTGGGGTGCAGAGGCGCAGCGCATCATCTCCAC 2122
QY 129 AlaAsnTySerGlnValGluLeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerPro 148
2123 CCCTCTTCAATGCACTTCACTTCACTATGATGATCGGCTGAGCTGAGAGAAACCG 2182
QY 149 AlaSerLeuGlyProAlaValTyrProValCysLeuProArgAlaSerHisArgPheVal 168
2183 GCAAGATACAGCTCCATGATGCGGCGCATCTGCTGCGGACCGCTCCCATGTTCTTCCCT 2242
QY 169 HisGlyThrAlaCysTyrPalaThrGlyTyrGlyAspValGlnGlnAlaAspProLeuPro 188
2243 GCCGCAAGGCGCATCTGGGTGACCGGGCTGGGGACACACCCAGTATGAGGACATCGGCGC 2302
QY 189 LeuProTyrValLeuGlnGlnValGluLeuArgLeuLeuGlyGlnAlaThrCysGlnCys 208
2303 CTG-----ATCTGCAAAAGGCTGAGATCCGCGTCAACACAGACCACTCGAGAAC 2356
QY 209 LeuTySerGlnProGlyProPheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCys 228
2357 CTCTGCCGCGAG-----CAGATCAGCGCGCGATGATGTGC 2392
QY 229 AlaGlyTyrProGlnGlyArgArgAspThrCysGlnGlyAspSerGlyProLeu--- 247
2393 GTGGGCTTCTCCAGCGGCGGCGGTGACCTGCGCAGGGTGATTCGGGGGAGACCCCTGTCC 2452
QY 248 ValCysGlnGlnGlyGlyArgTyrPheGlnAlaGlyIleThrSerPheGlyPheGlyCys 267
2453 AGCGTGGAGGCGGATGGCGGATCTTCCAGGCGGCTGTGGTGGAGAGAGCGGCTGC 2512
QY 268 GlyArgArgAsnArgProGlyValPheThrAlaValAlaThrTyrGlnAlaTyrIleArg 287
2513 GCTAGAGAGAAACAAGCGGCGGTGACACAGGCTCCCTGTGTTGGGACTGAGTCAAA 2572
QY 288 GluGlnValMetGlySerGlnProGlyProAlaPheProThrGlnProGlnIleThrGln 307
2573 GAGAAACCTGGGATAGGGCGCGCGCA----- 2602
QY 308 SerAspCysLeuHis 312
2603 CCCAAATGTATACAC 2617
Db 2603 CCCAAATGTATACAC 2617
RESULT 12
US-09-654-600A-18/C
Sequence 18, Application US/09654600A
Patent No. 6649741
GENERAL INFORMATION:
APPLICANT: O'Brien, Timothy J.
TITLE OF INVENTION: Tanimoto, Hirotooshi
TITLE OF INVENTION: Overexpressed in Carcinomas
FILE REFERENCE: D6064CIP/D
CURRENT APPLICATION NUMBER: US/09/654,600A
PRIOR FILING DATE: 2000-09-01
PRIOR APPLICATION NUMBER: 09/421,213
09/027,337
PRIOR FILING DATE: 1999-10-20
1998-02-20
NUMBER OF SEQ ID NOS: 98
SEQ ID NO 18
LENGTH: 3147
TYPE: RNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Antisense of TADG-15
US-09-654-600A-18
Alignment Scores:
Pred. No.: 1,266-35 Length: 3147
Score: 549.00 Matches: 118

Percent Similarity: 51.80% Conservative: 40
Best Local Similarity: 38.69% Mismatches: 103
Query Match: 28.11% Indels: 44
DB: 4 Gaps: 8
US-10-037-417-46 (1-357) x US-09-654-600A-18 (1-3147)
QY 32 AlaArgGlyProProTyrCysGlyArgProGluPro----- 43
1385 AGCAAGGCAACCTTGAATGTGACGGAGAGAGAGACTGTAGCAGCGCTCATAGTGAAG 1326
QY 44 -----SerAlaArgIleValGlyIleSerHis 52
1325 GACTGCACCTGTGGGCTGCGGTCACTTCAAGACAGAGCGCTCTGTGTTGGGGGACGGAT 1266
QY 53 AlaGlnProGlyThrTyrProTyrGlnValSerLeuHisHisGlyGlyValHisIle 71
1265 GCGGATGAGGCGGAGTGGCTTGGCAGATGAGCTTCATGCTTGGGCGCAGGCGCACATC 1206
QY 72 CysGlySerLeuIleAlaProSerTyrValLeuSerAlaAlaHisCysPheMetThr 91
1205 TGGGTGCTTCCCTCATCTCTCCCACTGGCTGTGCTTGGCGCACACTGCTATCATCAT 1146
QY 92 AsnGly-----ThrLeuGlnProAlaAlaGluTyrSerValLeuLeuGlyValHisSer 109
1145 GACAGAGATTCAGATCTACAGACCCAGCAGAGAGCGGCTTCTGGGCTTGACACAC 1086
QY 110 Gln---AspGlyProLeuAspGlyAlaHisThrArgAlaValAlaAlaIleValPro 128
1085 CAGAGCCAGCGCAGCGCCCTGGGGTGCAGAGAGGCGCAGCGCATCATCTCCAC 1026
QY 129 AlaAsnTySerGlnValGluLeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerPro 148
1025 CCCTTCTCAATGACTTCACTTCACTTCACTATGATGATCGGCTGAGAGCTGAGAAACCG 966
QY 149 AlaSerLeuGlyProAlaValTyrProValCysLeuProArgAlaSerHisArgPheVal 168
965 GCAAGATACAGCTCCATGATGCGGCGCATCTGCTGCGGACCGCTCCCATGTTCTTCCCT 906
QY 169 HisGlyThrAlaCysTyrPalaThrGlyTyrGlyAspValGlnGlnAlaAspProLeuPro 188
905 GCCGCAAGGCGCATCTGGGTGACCGGCTGGGGACACACCCAGTATGAGGACATCGCGCG 846
QY 209 LeuProTyrValLeuGlnGlnValGluLeuArgLeuLeuGlyGlnAlaThrCysGlnCys 208
845 CTG-----ATCTGCAAAAGGCTGAGATCCGCGTCAACACAGACCACTGCGAGAAC 792
QY 229 LeuTySerGlnProGlyProPheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCys 228
791 CTCTGCCGCGAG-----CAGATCAGCGCGCGATGATGTGC 756
QY 229 AlaGlyTyrProGlnGlyArgArgAspThrCysGlnGlyAspSerGlyProLeu--- 247
755 GTGGGCTTCTCCAGCGGCGGCGGTGACCTTCCGACAGGTGATTCGGGGGAGACCCCTGTCC 696
QY 248 ValCysGlnGlnGlyGlyArgTyrPheGlnAlaGlyIleThrSerPheGlyPheGlyCys 267
695 AGCGTGGAGGCGGATGGCGGATCTTCCAGGCGGCTGTGGTGGAGAGAGCGGCTGC 636
QY 268 GlyArgArgAsnArgProGlyValPheThrAlaValAlaThrTyrGlnAlaTyrIleArg 287
635 GCTAGAGAGAAACAAGCGGCGGTGACACAGGCTCCCTGTGTTGGGACTGAGTCAAA 576
QY 288 GluGlnValMetGlySerGlnProGlyProAlaPheProThrGlnProGlnIleThrGln 307
575 GAGAAACCTGGGATAGGGCGCGCGCA----- 546
QY 308 SerAspCysLeuHis 312
545 CCCAAATGTATACAC 531
Db 545 CCCAAATGTATACAC 531
RESULT 13
US-09-907-794A-262

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1 Sequence 262. Application US/09907794A
2 Patent No. 6635468
3 GENERAL INFORMATION:
4 APPLICANT: Genentech, Inc.
5 APPLICANT: Askenazi, Avi
6 APPLICANT: Botstein, David
7 APPLICANT: Desnoyers, Luc
8 APPLICANT: Eaton, Dan L.
9 APPLICANT: Ferrara, Napoleone
10 APPLICANT: Filvaroff, Ellen
11 APPLICANT: Fong, Sherman
12 APPLICANT: Gao, Wei-Qiang
13 APPLICANT: Gerber, Hanspeter
14 APPLICANT: Gerritsen, Mary E.
15 APPLICANT: Goddard, A.
16 APPLICANT: Grimaldi, Christopher J.
17 APPLICANT: Gurney, Austin L.
18 APPLICANT: Hillan, Kenneth J.
19 APPLICANT: Kijavini, Ivar J.
20 APPLICANT: Mather, Jennie P.
21 APPLICANT: Pan, James
22 APPLICANT: Paoni, Nicholas F.
23 APPLICANT: Roy, Margaret Ann
24 APPLICANT: Stewart, Timothy A.
25 APPLICANT: Tumas, Daniel
26 APPLICANT: Williams, P. Mickey
27 APPLICANT: Wood, William, I.
28 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
29 ACIDS OF INVENTION: Acids Encoding the Same
30 FILE REFERENCE: 10466-14
31 CURRENT APPLICATION NUMBER: US/09/907,794A
32 CURRENT FILING DATE: 2001-07-17
33 PRIOR APPLICATION NUMBER: PCT/US00/04414
34 PRIOR FILING DATE: 2000-02-22
35 PRIOR APPLICATION NUMBER: US 60/143,048
36 PRIOR FILING DATE: 1999-07-07
37 PRIOR APPLICATION NUMBER: US 60/145,698
38 PRIOR FILING DATE: 1999-07-26
39 PRIOR APPLICATION NUMBER: US 60/146,222
40 PRIOR FILING DATE: 1999-07-28
41 PRIOR APPLICATION NUMBER: PCT/US99/20594
42 PRIOR FILING DATE: 1999-09-08
43 PRIOR APPLICATION NUMBER: PCT/US99/20944
44 PRIOR FILING DATE: 1999-09-13
45 PRIOR APPLICATION NUMBER: PCT/US99/21090
46 PRIOR FILING DATE: 1999-09-15
47 PRIOR APPLICATION NUMBER: PCT/US99/21547
48 PRIOR FILING DATE: 1999-09-15
49 PRIOR APPLICATION NUMBER: PCT/US99/23089
50 PRIOR FILING DATE: 1999-10-05
51 PRIOR APPLICATION NUMBER: PCT/US99/28214
52 PRIOR FILING DATE: 1999-11-29
53 PRIOR APPLICATION NUMBER: PCT/US99/28313
54 PRIOR FILING DATE: 1999-11-30
55 PRIOR APPLICATION NUMBER: PCT/US99/28564
56 PRIOR FILING DATE: 1999-12-02
57 PRIOR APPLICATION NUMBER: PCT/US99/28565
58 PRIOR FILING DATE: 1999-12-02
59 PRIOR APPLICATION NUMBER: PCT/US99/30095
60 PRIOR FILING DATE: 1999-12-16
61 PRIOR APPLICATION NUMBER: PCT/US99/30911
62 PRIOR FILING DATE: 1999-12-20
63 PRIOR APPLICATION NUMBER: PCT/US99/30999
64 PRIOR FILING DATE: 1999-12-20
65 PRIOR APPLICATION NUMBER: PCT/US00/00219
66 NUMBER OF SEQ ID NOS: 423
67 SEQ ID NO 262
68 LENGTH: 1378
69 TYPE: DNA
70 ORGANISM: Homo Sapien
71 US-09-907-794A-262

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Alignment Scores:			
Pred. No.:	8,75e-36	Length:	1378
Score:	545.00	Matches:	134
Percent Similarity:	48.00%	Conservative:	46
Best Local Similarity:	35.73%	Mismatches:	146
Query Match:	27.91%	Indels:	51
DB:	4	Gaps:	9
US-10-037-417-46 (1-357) x US-09-907-794A-262 (1-1378)			
QY	7	IeuglyProglYglInleuglyalavaAlaasmsEzaspserTyxserIeutyrglyIeu	26
DB	80	CTGGGTGGGGGCTGTCTGGCAACCTTCACTCCCTGCTGTGGCGTCGACAGCATC	139
QY	27	ValProsergIyProAlaargIyProProTyryCyseIyArgrProgluProseralAArg	46
DB	140	CTCAATGGGGCCAGATACCTGTTCCCAAGCCTGGAGAGCCAGCATGAAACCGG	199
QY	47	IleValIglYglSerasmAlaGlnProglYlThrProTropdInAlserIeuHsHis	66
DB	200	GTTTGGGGGGGAGAGACAGCACTACAGCCAGTGGCCTTGATCTGACATCCAGAG	259
QY	67	GIyglYglYHIsIleCyseIyglYserIeuiIeAlaProserTyryValIeuseralAAla	86
DB	260	AATGGAGCCACCACTGGCGAGGTTCTGTCTACACAGCCGCTGGGTGATCACTGTGCC	319
QY	87	HisCyprmetrThrasnIyThreugIuProAlaIdgluTserValIeugly	106
DB	320	CACVTTTTCAAGACAC-----CTGAACAACATACCTGTCTGTGTCTGGGG	373
QY	107	ValHisserGlnaspGlyProIeubaspGlyAlaHisIsthrArgAlaValAlaIatIeVal	126
DB	374	GCCTGGCACTGGGGAACCTGGCTCTGGTCTCCAGAAAGTGGTGTTCCTGGGTGGAG	433
QY	127	ValProAlaasnTyrsSerGlnValGlu--IeuglyAlaAspleuAlIeueuArGlu	145
DB	434	CCCCACCCGTGTATTTCCGGAAGAAAGGTGCTGTGACAGATTCCTGGGCTCTC	493
QY	146	AlaserProAlaserIeudlyProAlaValITrProvalCyIeudProArgrAlaSerHis	165
DB	494	GAGCGCTCCATACAGTCTTCAGAGCGGGCTGCGCCATGTGCTTACATGACCTTATC	553
QY	166	ArgPheValHisglYThrAlaCystrIpaIatnrglyTyrgIyAspValGlnIuaIaasp	185
DB	554	CACCTCCCTCCAAACACCACCTGCTGATCTCAAGCTGGGGAGACATCAAGATGAGTT	613
QY	186	ProIeuProIeuProTirpValIeugIngluValGluIeuarGleuIeuglyIuaIatnr	205
DB	614	CCCTTGGCCCCACCTCAAGACCTTGAGAAAGGTTCATATCATCATCACTCGAAGTC	673
QY	206	CysGlnCyIseuTyr-----serGlnProglYproPheasIneuhIrIeugInIle	222
DB	674	TGCAGCCATCTGTACTGTGGGGGGAACAGAGACCC-----ATC	715
QY	223	IeuProglYmetIeuCyAlaaglYTyrProgluGlyArgrAspThrcyGInglYasp	242
DB	716	ACTAGACATGCTGTGTGTGGCGGCTACTTGGAGGGGAGACGGGATCTTGTCTGGCGAC	775
QY	243	SerglYglYProIeuValCyseIuGluIyglYArgrTPPheGlnIaaglYIethrSer	262
DB	776	TCCGGGGGCCCCCTCATGTGACAGGTGAGCGGCGCTGCTCTGTGCGCATCATCAAC	835
QY	263	PheglYpHeaglYcyseGlyArgrArgrsnArgrProglYvalIphethrAlaValAlaIatnrYr	282
DB	836	TGGGGCAGGGGTGTGCCAGCGCAACAGGCCCGGGGTCTTACATCAAGCTTCTGGCGAC	895
QY	283	GluAlaTirpIleaYgluGln-----	289
DB	896	CGCTCTCTGGTGA--GAGATGTGTCAAGGGGTGACGCTCCGGGGCGGCTCAAGGGGGG	954
QY	290	-----ValMetGlySerGlnProglYProAlaPheProThrGlnProGlnYsthrGln	307

Db 716 ACTGAGAGATGCTGTGTGTCGCCGCTACTTGTGAGGGGAGCGAGATGCTTGTGCGGCAC 775
Qy 243 SerGlyGlyProLeuValCysGluGluGlyGlyArgTyrPheGlnAlaGlyIleThrSer 262
Db 776 TCCGGGGGGCCCCCTCATGTGCGAGCGGCGCTGCTGCGCCGCGCATCATCAGC 835
Qy 263 PheGlyPheGlyCysGlyLysArgAsnArgProGlyValPheThrAlaValAlaThrTyr 282
Db 836 TGGGGCGAGGGCTGTGCGGAGCGCAAGCGCCGGGGTCTACATCAGCCTCTGCGGCAC 895
Qy 283 GluAlaTyrIleArgGluGln----- 289
Db 896 CGCTCCTGGGTGA-GAAGATGTCGACAGGGGTGACGTCGCCGGCGCGCTCAGGGGG 954
Qy 290 -----ValMetGlySerGluProGlyProAlaPheProThrGlnProGlnIleThrGln 307
Db 955 TGGGGCCCTCAGGGGACCGAGCGAGGGCT-CTGGGGCCCGCGCGCTCTAGGGGCGAG 1013
Qy 308 SerAspCysLeuHisGlnThrAlaPheLeuAspSerAlaArgIleLeuLeuArgProLeu 327
Db 1014 CGGGAC-----GGGGGGCTCGGATCTGAAG-----CGCCAGAT 1049
Qy 328 SerHisIleSerVal-----GlyValSerThrGlyThrIleSerLeu 341
Db 1050 CCACATCTGGATCTGATCTGCGGCGGCGCTCGGGCGGTTCCCGCCGCTAATAAGCTC 1109
Qy 342 ValLeuProThrLeuSerProHisSerLeuLeuGlyLeuTyrGly 356
Db 1110 ATC-----TACCTCTACTCTGAGGG 1130

RESULT 15

US-09-902-775A-262
Sequence 262, Application US/09902775A

Patent No. 666451
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Thomas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,775A
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
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PRIOR FILING DATE: 1999-07-28

PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
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PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
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PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 262
LENGTH: 1378
TYPE: DNA
ORGANISM: Homo Sapien

US-09-902-775A-262

Alignment Scores:
Pred. No.: 8,756-36 Length: 1378
Score: 545.00 Matches: 134
Percent Similarity: 48.00% Conservative: 46
Best Local Similarity: 35.73% Mismatches: 146
Query Match: 27.91% Indels: 51
DB: 4 Gaps: 9

US-10-037-417-46 (1-357) x US-09-902-775A-262 (1-1378)

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Qy 47 IleValGlyGlySerAsnAlaGlnProGlyThrProThrGlnAlaSerLeuHis 66
Db 200 GTTGTGGGCGGAGGACGACTGACAGAGAGTGGCCCTGTGATCGTAGCATCGAGAG 259
Qy 67 GlyGlyGlyHisIleCysGlyGlySerLeuLeuAlaProSerTyrValLeuSerAla 86
Db 260 AATGGAGCCACACACGCGCAGAGTTCTGTGTACAGCGCGCTGGGTATCATGTGCC 319
Qy 87 HisCysPheMetThrAsnGlyThrLeuGluProAlaAlaGluTyrSerValLeuLeuGly 106
Db 320 CACTGTTTCAAGGACAA-----CTGAACAAACCTATCCTGTCTGTGCTGCTGGGG 373
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Db 374 GCCTGGACCTGGGAGACCTGGCTCTCGATCCAGAGAGGTGGGTGTGCTGGGTGGAG 433
Qy 127 ValProAlaAsnTyrSerGlnValGlu---LeuGlyAlaAspLeuAlaLeuArgLeu 145
Db 434 CCCACCTGTGATTTCTGGAAGGAGGTGCTGTGAGACATTCCTCCGTGGCGGTCTC 493
Qy 146 AlaSerProAlaSerLeuGlyProAlaValIleTyrProValCysLeuProArgAlaSerHis 165

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QY 186 ProLeuProLeuProTyrValLeuGlnGluValGluLeuArgLeuLeuGlyGluAlaThr 205
Db 614 CCTTGCCCCACACCTCCAGACCCTGAGAAAGTTCCATCATCATGCACTCGAAAGTC 673
QY 206 CysGlnCysLeuTyr-----SerGlnProGlyProPheAsnLeuThrLeuGlnIle 222
Db 674 TGCAGCCATCTGTACTGCGCGGAGACAGACAGGACCC-----ATC 715
QY 223 LeuProGlyMetLeuCysAlaGlyTyrProGlnGlyArgAspThrCysGlnGlyAsp 242
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Db 776 TCCGCGGCGCCCTCATGTGCGCAGGTGACGCGCTGCTGCTGCGCGCATCATCAGC 835
QY 263 PheGlyPheGlyCysGlyArgArgAsnArgProGlyValPheThrAlaValAlaThrTyr 282
Db 836 TGGGGCGAGGGCTGTGCGGAGCGCAACAGCCGCGGTCTACATCAGCCTCTGCGGCAC 895
QY 283 GluAlaTyrPalaArgGlnGln-----GlyValSerThrGlyThrIleThrTyr 289
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QY 290 -----ValMetGlySerGluProGlyProAlaPheProThrGlnProGlnIleThrGln 307
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QY 328 SerHisIleSerVal-----GlyValSerThrGlyThrIleSerLeu 341
Db 1050 CCAATCTGATCTGATCTGCGGCGGCGGCTCGGGCGGTTTCCCGCGTAATAATAGGCTC 1109
QY 342 ValLeuProTyrLeuSerProHisSerLeuGlnGlyLeuTyrGly 356
Db 1110 ATC-----TACCTTAACCTCTGCGGG 1130
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Job time : 88 secs

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GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: August 4, 2004, 13:39:52 ; Search time 485 Seconds

(without alignments)
3609.115 Million cell updates/sec

Title: US-10-037-417-46

Perfect score: 1953

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Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 3222919 segs, 2451570024 residues

Total number of hits satisfying chosen parameters: 6445838

Minimum DB seg length: 0
Maximum DB seg length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-LOOPCL=0 -LOOEXT=0 -UNITS=bites -STAR=1 -END=1 -MATRIX=blom62
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-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTPMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=200000000 -USER=US10037417 @CGN 1.1 723 @runat_30072004_090755_26620
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Database : Published Applications NA:*

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19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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1	1953	100.0	1102	13	US-10-037-417-43	Sequence 43, Appl
2	1953	100.0	1102	13	US-10-037-417-45	Sequence 45, Appl
3	1505	77.1	2457	9	US-09-888-615-52	Sequence 52, Appl
4	697	35.7	1733	15	US-10-176-847-85	Sequence 85, Appl
5	697	35.7	1834	9	US-09-948-094-1	Sequence 1, Appl
6	697	35.7	1834	9	US-09-880-107-2214	Sequence 2214, Ap
7	697	35.7	1834	9	US-09-967-768A-141	Sequence 141, App
8	697	35.7	1834	12	US-09-968-007A-115	Sequence 115, App
9	697	35.7	1834	12	US-09-968-007A-379	Sequence 379, App
10	697	35.7	1834	15	US-10-097-140-261	Sequence 261, App
11	697	35.7	3382	15	US-10-101-510-447	Sequence 447, App
12	665	34.1	1688	9	US-09-925-301-208	Sequence 208, App
13	652	33.4	1726	13	US-10-042-865-29	Sequence 29, Appl
14	627.5	32.1	1797	15	US-10-109-616-1	Sequence 1, Appl
15	612	31.3	1161	13	US-10-042-865-31	Sequence 31, Appl
16	603.5	30.9	1606	17	US-10-470-390A-35	Sequence 35, Appl
17	603.5	30.9	1613	14	US-10-041-400A-1	Sequence 1, Appl
18	603.5	30.9	1613	14	US-10-041-264A-1	Sequence 1, Appl
19	603.5	30.9	1613	14	US-10-042-091A-1	Sequence 1, Appl
20	597	30.6	944	17	US-10-311-591A-5	Sequence 5, Appl
21	596.5	30.5	849	17	US-10-451-168-47	Sequence 47, Appl
22	591	30.3	1020	16	US-10-051-874-25	Sequence 25, Appl
23	590	30.2	843	17	US-10-451-168-46	Sequence 46, Appl
24	589	30.2	2662	17	US-10-275-505-27	Sequence 27, Appl
25	582.5	29.8	1958	17	US-10-311-935-29	Sequence 29, Appl
26	576	29.5	786	17	US-10-311-591A-1	Sequence 1, Appl
27	575.5	29.5	768	15	US-10-221-097-10	Sequence 10, Appl
28	575.5	29.5	882	13	US-10-042-865-33	Sequence 33, Appl
29	571.5	29.3	882	13	US-10-042-865-34	Sequence 34, Appl
30	565	28.9	1887	9	US-09-888-615-27	Sequence 27, Appl
31	565	28.9	1973	15	US-10-190-030B-15	Sequence 15, Appl
32	563.5	28.9	1110	14	US-10-040-655-1	Sequence 1, Appl
33	563.5	28.9	1110	14	US-10-041-006A-1	Sequence 1, Appl
34	563.5	28.9	1129	13	US-10-147-493-221	Sequence 221, App
35	563.5	28.9	1129	13	US-10-145-127-221	Sequence 221, App
36	563.5	28.9	1129	13	US-10-160-503-221	Sequence 221, App
37	563.5	28.9	1129	13	US-10-143-118-221	Sequence 221, App
38	563.5	28.9	1129	13	US-10-144-993-221	Sequence 221, App
39	563.5	28.9	1129	13	US-10-158-787-221	Sequence 221, App
40	563.5	28.9	1129	13	US-10-140-024-221	Sequence 221, App
41	563.5	28.9	1129	13	US-10-140-808-221	Sequence 221, App
42	563.5	28.9	1129	13	US-10-152-805-221	Sequence 221, App
43	563.5	28.9	1129	13	US-10-127-852A-221	Sequence 221, App
44	563.5	28.9	1129	13	US-10-127-900A-221	Sequence 221, App
45	563.5	28.9	1129	13	US-10-128-865A-221	Sequence 221, App

ALIGNMENTS

RESULT 1
US-10-037-417-43
Sequence 43, Application US/10037417
Publication No. US20040052806A1
GENERAL INFORMATION:
APPLICANT: Kexunda, Ramesh
APPLICANT: Alsobrook II, John P
APPLICANT: Tchiernev, Velizar T
APPLICANT: Liu, Xiaohong
APPLICANT: Spytek, Kimberly A
APPLICANT: Patturajan, Meera
APPLICANT: Grose, William M
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine E
APPLICANT: Vermet, Corine A.M.
APPLICANT: Li, Li
APPLICANT: Gorman, Linda
APPLICANT: Edinger, Shlomit R
APPLICANT: Sciore, Paul
APPLICANT: Ellerman, Karen
APPLICANT: Malyanckar, Uriel M
APPLICANT: Rothenberg, Mark
APPLICANT: Stone, David J

```

/ APPLICANT: Boldog, Ferenc L
/ APPLICANT: Guo, Xiaojia
/ APPLICANT: Shenoy, Suresh G
/ APPLICANT: Anderson, David W
/ APPLICANT: Padigaru, Muraidhara
/ APPLICANT: Taupier Jr, Raymond J
/ APPLICANT: Miller, Charles E
/ APPLICANT: Bisen, Andrew J
/ TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
/ FILE REFERENCE: 21402-235
/ CURRENT APPLICATION NUMBER: US/10/037,417
/ CURRENT FILING DATE: 2002-09-20
/ PRIOR APPLICATION NUMBER: 60/260,018
/ PRIOR FILING DATE: 2001-01-05
/ PRIOR APPLICATION NUMBER: 60/260,360
/ PRIOR FILING DATE: 2001-01-08
/ PRIOR APPLICATION NUMBER: 60/272,411
/ PRIOR FILING DATE: 2001-02-28
/ PRIOR APPLICATION NUMBER: 60/272,817
/ PRIOR FILING DATE: 2001-03-02
/ PRIOR APPLICATION NUMBER: 60/291,186
/ PRIOR FILING DATE: 2001-05-15
/ PRIOR APPLICATION NUMBER: 60/303,231
/ PRIOR FILING DATE: 2001-07-05
/ PRIOR APPLICATION NUMBER: 60/305,060
/ PRIOR FILING DATE: 2001-07-12
/ PRIOR APPLICATION NUMBER: 60/318,405
/ PRIOR FILING DATE: 2001-09-10
/ PRIOR APPLICATION NUMBER: 60/318,700
/ PRIOR FILING DATE: 2001-09-12
/ NUMBER OF SEQ ID NOS: 227
/ SOFTWARE: Patent In Ver. 2.1
/ SEQ ID NO 43
/ LENGTH: 1102
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-037-417-43

Alignment Scores:
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Score: 1953.00 Matches: 357
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
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Db 19 ATGGCCCAAGAGGGGCTGCTGGGGCTGGGGAGCTGGGGGCTGTGGCCATTTCTGACTCA 78
QY 21 TTTSerLeuTyrGlyLeuValProSerGlyProAlaArgGlyProProTyrCysGlyArg 40
Db 79 TACTCACTTTACCGGTGTGGTCCGTCGAGACCGCTAGGGGGCCCCCGTACTGCGGGCCG 138
QY 41 ProGlnProSerAlaArgIleValGlyGlySerAsnAlaGlnProGlyThrProTyr 60
Db 139 CCGAGCCCTCGGCCCGCATCGTGGGGGCTCAAAAGCGGACCGGGCACTGGCTTGG 198
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Db 199 CAAGTAGGCTGACCATGAGGTGGCCACATCTGGGGGGCTCCCTCATCGCCCCCTCC 258
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Db 259 TGGGTCTCTCCGCTGCTCACTGTTCAGAGCAATGGAGACGTGGAGCCCGGGCGAG 318
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Db 619 CTGGGGGAGGCGCCCTGTCAATGTCTTCAAGCCACCGGTCCTTCAACCTCACTCTC 678
QY 221 GlnIleLeuProGlyMetLeuGlyAlaGlyTyrProGlyGlnValArgArgAspThrCysGln 240
Db 679 CAGATATTCAGAGGAGTGTGTGTGCTGCTACCCAGAGGCGGACAGGACACTGCGAG 738
QY 241 GlyAspSerGlyGlyProLeuValCysGlnGlnGlyArgTrpPheGlnAlaGlyIle 260
Db 739 GGTGACTCTGGGGGGCCCTCGGTCTGTGAGGAAGGCGCGCTGTTCAGGACGAGAAATC 798
QY 261 ThrSerPheGlyPheGlyCysGlyValArgArgAsnArgProGlyValAlaPheThrAla 280
Db 799 ACCAGCTTGGGTGGTGGCTGTGACCGAGAAACCGGCTGGAGTTTCACTGTGGGCT 858
QY 281 ThrTyrGlnAlaTrpIleArgGlnGlnValMetGlySerGlnProGlyProAlaPhePro 300
Db 859 ACCTATGAGGCAATGATTAAGGAGCAGGTGATGGGTTCAGAGCTTGGCTTGTCC 918
QY 301 ThrGlnProGlnLysThrGlnSerAspCysLeuHisGlnThrAlaPheLeuAspSerAla 320
Db 919 ACCAGCCCAAGAGCCCAAGTCAATGTGTTTATCATCAACGGCATTCGTGATTCGCG 978
QY 321 ArgIleLeuLeuArgProLeuSerHisIleSerValGlyValSerThrGlyThrLysSer 340
Db 979 AGAATCTTTTGAAGGCGCTTGTCCATATATCATGATGAGTCTCACTGGAGACCAAAAC 1038
QY 341 LeuValLeuProTyrLeuSerProHisSerLeuLeuGlyLeuTrpGlyPhe 357
Db 1039 CTGTGCTCTCCCTGGCTCTCTCCACACTCTCTCTGCGGCTCTGGGGGCTTC 1089

RESULT 2
US-10-037-417-45
/ Sequence 45, Application US/10037417
/ Publication No. US20040052806A1
/ GENERAL INFORMATION:
/ APPLICANT: Kekuda, Ramesh
/ APPLICANT: Alsobrook II, John P
/ APPLICANT: Tchernev, Velizar T
/ APPLICANT: Liu, Xiaohong
/ APPLICANT: Spylek, Kimberly A
/ APPLICANT: Patnureajan, Meera
/ APPLICANT: Grose, William M
/ APPLICANT: Lepley, Denise M
/ APPLICANT: Burgess, Catherine E
/ APPLICANT: Vernet, Corine A.M.
/ APPLICANT: Li, Li
/ APPLICANT: Gorman, Linda
/ APPLICANT: Edinger, Shlomit R
/ APPLICANT: Sciore, Paul
/ APPLICANT: Ellerman, Karen
/ APPLICANT: Malysankar, Uriel M
/ APPLICANT: Rothenberg, Mark
/ APPLICANT: Stone, David J
/ APPLICANT: Boldog, Ferenc L
/ APPLICANT: Guo, Xiaojia
/ APPLICANT: Shenoy, Suresh G
```

APPLICANT: Anderson, David W
APPLICANT: Padigaru, Muralidhara
APPLICANT: Taupier Jr, Raymond J
APPLICANT: Miller, Charles E
APPLICANT: Eisen, Andrew J
TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-235
CURRENT APPLICATION NUMBER: US/10/037,417
CURRENT FILING DATE: 2002-09-20
PRIOR APPLICATION NUMBER: 60/260,018
PRIOR FILING DATE: 2001-01-05
PRIOR APPLICATION NUMBER: 60/260,360
PRIOR FILING DATE: 2001-01-08
PRIOR APPLICATION NUMBER: 60/272,411
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 60/272,817
PRIOR FILING DATE: 2001-03-02
PRIOR APPLICATION NUMBER: 60/291,186
PRIOR FILING DATE: 2001-05-15
PRIOR APPLICATION NUMBER: 60/303,231
PRIOR FILING DATE: 2001-07-05
PRIOR APPLICATION NUMBER: 60/305,060
PRIOR FILING DATE: 2001-07-12
PRIOR APPLICATION NUMBER: 60/318,405
PRIOR FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/318,700
PRIOR FILING DATE: 2001-09-12
NUMBER OF SEQ ID NOS: 227
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 45
LENGTH: 1102
TYPE: DNA
ORGANISM: Homo sapiens
US-10-037-417-45

Alignment Scores:
Pred. No.: 4e-180 Length: 1102
Score: 1953.00 Matches: 357
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0

US-10-037-417-46 (1-357) x US-10-037-417-45 (1-1102)

QY 1 MetaAglnlysglyValleuGlyProGlyGlnleuGlyAlaValAlaAsnSerAspSer 20
DB 19 ATGGCCCAAGAGGGGCTCTGGGGCTGGGCACTGGGGGCTGGGCAATTCTGACTCA 78
QY 21 TySerLeuYrGlyLeuValProSerGlyProAlaArgGlyProProTyrCysGlyArg 40
DB 79 TACTACTTTACGGGTGTGGTGGCCGACCCGACCCGCTAGGGGCCCCCGACGCGGGGC 138
QY 41 ProGluProSerAlaArgTleValGlyGlySerAsnAlaGlnProGlyThrTrpProTrp 60
DB 139 CCGTGGCCCTCGGCGCCGATCGTGGGGGCTCAAAACGGGACCGCGGACCTGGGCTTGG 198
QY 61 GlnValSerLeuHisGlyGlyGlyHisGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 80
DB 199 CAAAGGAGCTGACACATGAGAGTGGCCACATCTGGGGGGCTCCCTCATTCGCCCTCC 258
QY 81 TrpValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeuGluProAlaAlaGlu 100
DB 259 TGGGTCTCTCGCGCTGCTACCTTTTCATGACGAATGGGACGTTGGAGCCCGCGCCGAG 318
QY 101 TrpSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAspGlyAlaHisThrArg 120
DB 319 TGGTGGTACTGCTGGGGGCTGACCTCCCGAGGACGGGGCCCTTGGACGGCGACACCCGC 378
QY 121 AlaValAlaAlaIleValValProAlaAsnTrpSerGlnValGluLeuGlyValAspLeu 140
DB 379 GCAAGGGCCGACATGATGGTGGCGGACCACTACAGCCAAAGTGAAGTGGGCGCCGACCTG 438

QY 141 AlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaValIleTrpProValCysLeu 160
DB 439 GCCCTGCTGGCCCTGGGCTTCCACCGCAGCTGGGGCCCCCGGTGGCTGTGCTGCTG 498
QY 161 ProArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAlaThrGlyTrpGlyAsp 180
DB 499 CCCCCCTTCAACCCCTTGGTACAGGACCCGCTGGGCGCACCGGCTGGGGAGC 558
QY 181 ValGlnGluAlaAspProLeuProLeuProTrpValLeuGlnGluValGluLeuArgLeu 200
DB 559 GTCCAGAGGAGGATCTCTGCTCCCTCCCGGTGGCTACAGGAAGTGAAGTGAAGTGC 618
QY 201 LeuGlyGluAlaThrCysGlnCysLeuTrpSerGlnProGlyProPheAsnLeuThrLeu 220
DB 619 CTGGGCGAGGCGACCTGTCAATGTCTTACAGCCAGCCCGGCTCCCTTCAACCTCACTTC 678
QY 221 GlnIleLeuProGlyMetLeuCysAlaGlyTrpProGluGluValArgArgAspThrCysGln 240
DB 679 CAGATATTGCCAGGAATGCTGTGTGCTGACTACCAAGAGGCGCGAGGACACTGCGAG 738
QY 241 GlyAspSerGlyGlyProLeuValCysGluGluGlyGlyArgTrpPheGlnAlaGlyIle 260
DB 739 GGTACTCTGGGGGGCCCTGCTGTGTGAGGAGGCGGCGCTGGTTCAGGCGAGATC 798
QY 261 ThrSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyValPheThrAlaValAla 280
DB 799 ACCAGCTTTGGGTGGTGGCTGTGGAAGGAGAAACCGCCCTGAGGTTTACGCTGTGCT 858
QY 281 ThrTrpGluAlaTrpIleArgGluGluValMetGlySerGluProGlyProAlaPhePro 300
DB 859 ACCATAGGCAATGATACGGAAGCAGGTATGGGTTCAGAGCTGGGCTGCTTCC 918
QY 301 ThrGlnProGlnYsrGlnSerAspCysLeuHisGlnThrAlaPheLeuAspSerAla 320
DB 919 ACCGAGCCCAAGAGACCACTGATGATTGTTACATCAAAACGCACTTCTGATTTCC 978
QY 321 ArgIleLeuLeuArgProLeuSerHisIleSerValGlyValSerThrGlyThrIlySer 340
DB 979 AGAATCCCTTTGAGGCGCTTGTCCCATATATCAGTAGGAGTCTCAACTGGGACAAAGC 1038
QY 341 LeuValLeuProTrpLeuSerProHisSerLeuLeuGlyLeuTrpGlyPhe 357
DB 1039 CTGTCTCCCTGGCTGTCTTCCACACTCTCTCTGGGCGCTTGGGGGTTTC 1089

RESULT 3
US-09-888-615-52
Sequence 52, Application US/09888615
Patent No. US20020064856A1
GENERAL INFORMATION:
APPLICANT: PLOWMAN, GREGORY
APPLICANT: WHYTE, DAVID
APPLICANT: CAENEPEEL, SEAN
APPLICANT: CHARVDCZAK, GLEN
APPLICANT: MANNING, GERARD
APPLICANT: SUDARSANAM, SUCHA
TITLE OF INVENTION: NOVEL PROTEASES
FILE REFERENCE: 038602/1214
CURRENT APPLICATION NUMBER: US/09/888,615
CURRENT FILING DATE: 2001-06-26
PRIOR APPLICATION NUMBER: 60/214,047
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 150
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 52
LENGTH: 2457
TYPE: DNA
ORGANISM: Homo sapiens
US-09-888-615-52

Alignment Scores:
Pred. No.: 2.85e-136 Length: 2457
Score: 1505.00 Matches: 272
Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00%
Query Match: 77.06%
DB: 9
Mismatches: 0
Indels: 0
Gaps: 0

US-10-037-417-46 (1-357) x US-09-888-615-52 (1-2457)

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QY 38 CysGlyArgProGluProSerAlaArgIleValGlySerAsnAlaGlnProGlyThr 57
Db 112 TGGGGGGGCGCTAGCCCTCGGCCCGCATGTGGGGGGCTCAACCGCGACCGGGACC 171
QY 58 TrpProTArgIleValSerLeuHisSgIleGlyGlyHisIleCysGlySerLeuIle 77
Db 172 TGGCCTTGGCAAGTGGAGCTTGCACCATGGAGTGGCCACATCGCGGGGCTCCCTCATC 231
QY 78 AlaProSerTrpValLeuSerAlaIleHisCysPheMetThrAsnGlyThrLeuGluPro 97
Db 232 GCCCCTCTCGGGGCTCTCTCGCTGCTCACTGTTTCAATGACGATGGAGAGCGTGGAGCCC 291
QY 98 AlaAlaGlnTrpSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAspGlyAla 117
Db 292 GCGGCGGAGTGTGGGTACTGCTGGGGGCTGCACTCCCAAGACGGGCCCTGACGGCGCG 351
QY 118 HisThrArgAlaValAlaIleValProAlaAsnTyrSerGlnValGluLeuGly 137
Db 352 CACACCCGCGCAATGGCCCGCATCGTGGCCGCACTACAGCCAAAGTGGAGCTGGGCG 411
QY 138 AlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaValTrpPro 157
Db 412 GCCGACTTGGCCCTGTGGCTGGCCCTACCGCCAGCGCTGGGCCCGCGCTGGGCT 471
QY 158 ValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAlaThrGly 177
Db 472 GTCGTGCTGCGCCCGCCCTCACACCGCTTCGTGCAAGGACCGCCGTGGGCGCACCGG 531
QY 178 TrpGlyAspValGlnGlnAlaAspProLeuProLeuProTrpValLeuGlnGluValGlu 197
Db 532 TGGGAGAGGTCCAGAGGACAGATCCCTGCTCCCTGGGTGCTACAGAGAGTGGAG 591
QY 198 LeuArgLeuLeuGlyGlnAlaThrCysGlnCysLeuTyrSerGlnProGlyProPheAsn 217
Db 592 CTAAAGCTGTGGGCGAGGCGACCTGTCATGCTCTACAGCCAGCCGCGCTCCCTCAAC 651
QY 218 LeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGluGlyArgAsp 237
Db 652 CTCACCTCTCCAGATATTGGCAAGGAGTGTGTGTGCTAGCCACAGAGGCCGCGAGGAC 711
QY 238 ThrCysGlnGlyAspSerGlyGlyProLeuValCysGluGlnGlyGlyArgTrpPheGln 257
Db 712 ACCTGCGAGGTGACTCTGGGGGGCGCCGTGTCTGTGAAGAAAGCGCGCTGGTTCCAG 771
QY 258 AlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyValPheThr 277
Db 772 GAGAGATATACAGCTTTGGCTTTGGCTGTGACGAGAAACCGCCCTGAGTTTCACT 831
QY 278 AlaValAlaThrTyrGlnAlaTrpIleArgGlnGlnValMetGlySerGlnProGlyPro 297
Db 832 GCTGTGGCTACTATGAGCATGATACGAGAGAGAGTATGGGTTCAGAGCTGGGCT 891
QY 298 AlaPheProThrGlnProGlnTyrThrGlnSerAsp 309
Db 892 GCCTTTCCACCCAGCCCGAGAAAGCCAGTCCAGAT 927
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RESULT 4

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US-10-176-847-85
; Sequence 85, Application US/10176847
; Publication No. US20030068636A1
; GENERAL INFORMATION:
; APPLICATION: Veldy, Peter Oie
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
; TUMOR. AND OVARIAN CANCER
; FILE REFERENCE: MRI-039
; CURRENT APPLICATION NUMBER: US/10/176,847
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CURRENT FILING DATE: 2002-06-21

NUMBER OF SEQ ID NOS: 112
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 85

LENGTH: 1733
TYPE: DNA

ORGANISM: Homo sapiens
US-10-176-847-85

Alignment Scores:

Pred. No.:	4,81e-58	Length:	1733
Score:	697.00	Matches:	160
Percent Similarity:	55.29%	Conservative:	49
Best Local Similarity:	42.33%	Mismatch:	133
Query Match:	35.69%	Indels:	36
DB:	15	Gaps:	11

US-10-037-417-46 (1-357) x US-10-176-847-85 (1-1733)

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QY 1 MetAlaGlnLysGlyValLeuGlyProGlyValLeuGlyValAlaValAsnSerAspSer 20
Db 99 ATGGCCAGAGAGGGGTCTGGGGCTGGAGCTGGGGGCTGTGGCC----- 146
QY 21 TyrSerLeuTyr---GlyLeuValProSerGlyPro-----AlaArgGlyPro 35
Db 147 ATTCTGCTCTATCTGTGATTTACTCGGTCAAGGAGACAGAGCGGAGAGGCGACAGAGCTCC 206
QY 36 ProTyrCysGlyArgProGluProSerAlaArgIleValGlySerAsnAlaGlnPro 55
Db 207 -----TGGGCT---GTGGCCCGCCAGACCATCATCAGGTGGCGAGTGCAGTCCGCC 257
QY 56 GlyThrTrpProTArgIleValSerLeuHisSgIleGlyGlyHisIleCysGlySerLeu 75
Db 258 GGTCAAGTGGCCCTGGAGGTACATACCTTGAAGGCGTCCATGTGTGTGGCTCT 317
QY 76 LeuIleAlaProSerTrpValLeuSerAlaIleHisCysPheMetThrAsnGlyThrLeu 95
Db 318 CTGTGTCTGAGAGTGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 377
QY 96 GluProAlaAlaGlnTrpSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAsp 115
Db 378 GAA-----GCCATAGGTGTAAGCTGGGGGGCCACAGCTACATCTTACCTCCAG 428
QY 116 GlyAlaHisThrArgAlaValAlaIleValProAlaAsnTyrSerGlnValGlu 135
Db 429 GAGCGCAAGGTACGACCTTGAAGGACATATCCCCACCGGCTACCTCCAGAGGCG 488
QY 136 LeuGlyAlaAspLeuAlaLeuArgLeuAlaSerProAlaSerLeuGlyProAlaVal 155
Db 489 TCCAGAGGCGCATTTGCACTCTCCAACTACAGACAGCCATCATCTTCCGCTACATC 548
QY 156 TrpProValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAla 175
Db 549 CGGCCATCTGCTCTCCAGAGCCAAAGCGCTCTCCCAAGCGGCTCCCACTGCACTGTC 608
QY 176 ThrGlyTrpGlyAspValGlnGlnAlaAspProLeuProLeuProTrpValLeuGlnGlu 195
Db 609 ACTGGCTGGGTGATGTGGCCCCCTCAGTGAACCTCTTCAAGCCCAAGCATCTGAGCAA 668
QY 196 ValGluLeuArgLeuLeuGlyGlnAlaThrCysGlnCysLeuTyrSerGlnProGlyPro 215
Db 669 CTGAGAGTGCCTGTATCATGTGTGAGAGTGTGTAAGTGTGTAAGTGTGTAAGTGTGTA 728
QY 216 PheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGluGlyArg 235
Db 729 CCTGAGAGCGCGACTTTGTCCAGAGGACAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 788
QY 236 ArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGluGlnGlyGlyArgTrp 255
Db 789 AAGGAGCGCTGCGCAGGGTATCTTGGGGGCCCATCTCTCGTGGCTGTGAGAGGTCTCTGG 848
QY 256 PheGlnAlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyVal 275
Db 275
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Db 849 TACTGACGGGCGATTGTGAGCTGGGAGATGCTGTGGGGCCCGACAGAGCCGTGTGTG 908
 Qy 276 PheThralaValaLathrTyrgluAlaTrpIlearggluInValMetGlySerGluPro 295
 Db 969 TACACTCTGGGCTCCAGCTATGCTCTGTGATCCAAAGCAAGTG-----ACAACAATC 962
 Qy 296 GlyProAlaPheProThrGlnProGlnThrGlnSerAsp-----CysLeuHis 312
 Db 963 CAGCTCGTGTGTGCTCCCAACCCAGAGATCCAGCCGACAGCAACCTGTGTGCAAGC 1022
 Qy 313 GlnThrAlaPheLeuAspSer---AlaArgIleLeuLeuArgProLeuSerHisIleSer 331
 Db 1023 CACTGGGCTTACGCTCTGCCCCAGCCAGGCGCTGTGAGGCGCTTTTCTGTGCT 1082
 Qy 332 ValGlyAlaSerThrGlyThrIleSerLeuValLeuProTrpLeuSer----- 347
 Db 1083 CTGGGCTGTGGCTCTGGGC-----CTCTCTCCCATGTGCTCAGAGAGACTGAGCT 1133
 Qy 348 -----ProHisSerLeuLeuGlyLeuTrpGlyPhe 357
 Db 1134 GGCCCTACTTCAGAGATGATGATCATCATCAAGAGAGAGAGCTGTCTCTTC 1187
 RESULT 5
 ; US-09-948-094-1
 ; Sequence 1, Application US/09948094
 ; Patent No. US20020090625A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Mok, Samuel
 ; APPLICANT: The Brigham and Women's Hospital, Inc.
 ; APPLICANT: Wong, Kwong-kwok
 ; TITLE OF INVENTION: Methods of Detecting Cancer Based on Prostatin
 ; FILE REFERENCE: 81994/282423
 ; CURRENT APPLICATION NUMBER: US/09/948,094
 ; CURRENT FILING DATE: 2001-09-07
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 1
 ; LENGTH: 1834
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (229)..(1260)
 ; US-09-948-094-1
 Alignment Scores:
 Pred. No.: 5 136-58 Length: 1834
 Score: 697.00 Matches: 160
 Percent Similarity: 55.23% Conservative: 49
 Best Local Similarity: 42.33% Mismatches: 133
 Query Match: 35.69% Indels: 36
 Gaps: 11
 DB: 9
 US-10-037-417-46 (1-357) x US-09-948-094-1 (1-1834)
 Qy 1 MetaGlnIlySGlyValLeuGlyProGlyGlnLeuGlyAlaValAlaAsnSerAspSer 20
 Db 229 ATGGCCAGAGAGGGGCTCTGGGGGCTGGGAGCTGGGGGCTGTGGC----- 276
 Qy 21 TyrSerLeuIlyr---GlyLeuValProSerGlyPro-----AlaArgGlyPro 35
 Db 277 ATTGCTCTATCTCTTGATTAATCTCGGTGCGGAGAGAGAGCGGAGGGGCGAGAACCTCC 336
 Qy 36 ProTrpCysGlyArgProGluProSerAlaArgIleValGlySerAsnAlaGlnPro 55
 Db 337 -----TGGGCT---GTGGCCCTCCAGACCAACCATCAAGGTGGCGAGTGCAGTCCG 387
 Qy 56 GlyThrTrpProTrpGlnValSerLeuHisIleSGlyGlyGlyHisIleCysGlyGlySer 75
 Db 388 GGTCAGTGGCCCTGGCAGGTGAGTCACTCATGAAGGGTGCATGTGTGTGGTCTCT 447
 Qy 76 LeuIleAlaProSerTrpValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrIleu 95

Db 448 CTGTGTGTGAGCAGTGGGTGCTGTGACTGTCTCACTGTCTTCCCGAGAGACCAAG 507
 Qy 96 GluProAlaAlaGluTrpSerValLeuLeuGlyValHisSerGlnAsnGlyProLeuAsp 115
 Db 508 GAA-----GGCTATGAGTCAAGTGTGGGGCCCGACAGCTAGATCTCTACTCCGAG 558
 Qy 116 GlyAlaHisThrArgAlaValAlaAlaIleValValProAlaAsnTrpSerGlnValGlu 135
 Db 559 GAGCGCAAGTCAAGACCACTGAGAGACATCTCCCAAGCCAGCTCACTCCAGAGAGAG 618
 Qy 136 LeuGlyAlaAspLeuAlaLeuLeuArgLeuLeuAspProAlaSerLeuGlyProAlaVal 155
 Db 619 TCCAGAGGCGCATTCAGCTCTCTCACTCAAGACAGACCAATCACTTCTCCCGTACATC 678
 Qy 156 TrpProValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAla 175
 Db 679 CGGCCCATCTCTCTCTCCGAGAGCAACCCCTCTTCCCAAGGCTCACTGCACTGTGC 738
 Qy 176 ThrGlyTrpGlyAspValGlnGlnAlaAspProLeuProLeuProTrpValLeuGlnIle 195
 Db 739 ACTGGCTGGGTCAATGTGGCCCTCAGTGAAGCTCTGAGGCCCAAGCCACTGACAGAA 798
 Qy 196 ValGluLeuArgLeuLeuGlyGluAlaLathrCysGlnCysLeuTrpSerGlnProGlyPro 215
 Db 799 CTGAGGTGCTCTGTATCACTGTGAGAGAGTGAATCTCTGTACACATGACAGCCCAAG 858
 Qy 216 PheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTrpProGlnGlyArg 235
 Db 859 CCTGAGAGAGCGGCACTTGTCAAGAGAGACANTGTGTGTGTGTGTGTGTGTGTGTGTGT 918
 Qy 236 ArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGlnGlyGlyArgTrp 255
 Db 919 AAGGAGCGCTCCAGGGGTGACTCTGGGGGCGCCACTCTCTGCTGTGAGAGGTCTCTGG 978
 Qy 256 PheGlnAlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyVal 275
 Db 979 TACTGACGGGCGATTGTGAGCTGTGGGAGATGCTGTGGGGCCCGACAGAGGCTGTGTGTG 1038
 Qy 276 PheThralaValaLathrTyrgluAlaTrpIlearggluInValMetGlySerGluPro 295
 Db 1039 TACACTCTGGGCTCCAGCTATGCTCTGTGATCCAAAGCAAGTG-----ACAACAATC 1092
 Qy 296 GlyProAlaPheProThrGlnProGlnThrGlnSerAsp-----CysLeuHis 312
 Db 1093 CAGCTCGTGTGTGCTCCCAACCCAGAGATCCAGCCGACAGCAACCTGTGTGCAAGC 1152
 Qy 313 GlnThrAlaPheLeuAspSer---AlaArgIleLeuLeuArgProLeuSerHisIleSer 331
 Db 1153 CACTGGGCTTACGCTCTGCCCCAGCCAGGCGCTGTGAGGCGCTTTTCTGTGCT 1212
 Qy 332 ValGlyAlaSerThrGlyThrIleSerLeuValLeuProTrpLeuSer----- 347
 Db 1213 CTGGGCTGTGGCTCTGGGC-----CTCTCTCCCATGTGCTCAGAGAGACTGAGCT 1263
 Qy 348 -----ProHisSerLeuLeuGlyLeuTrpGlyPhe 357
 Db 1264 GGCCCTACTTCAGAGATGATGATCATCATCAAGAGAGAGAGCTGTCTCTTC 1317
 RESULT 6
 ; US-09-880-107-2214
 ; Sequence 2214, Application US/09880107
 ; Patent No. US20020142981A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Horne, Darci T.
 ; APPLICANT: Vockley, Joseph G.
 ; APPLICANT: Scherf, Iwe
 ; APPLICANT: Gene Logic, Inc.
 ; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
 ; FILE REFERENCE: 44921-5028-WO
 ; CURRENT APPLICATION NUMBER: US/09/880,107
 ; CURRENT FILING DATE: 2001-06-14
 ; PRIOR APPLICATION NUMBER: US 60/211,379
 ; PRIOR FILING DATE: 2000-06-14

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; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2214
; LENGTH: 1834
; TYPE: DNA
; ORGANISM: Homo sapiens
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 L41351
US-09-880-107-2214

Alignment Scores:
Pred. No.:      5,13e-58      Length:      1834
Score:          697.00      Matches:      160
Percent Similarity: 55.29%      Conservative: 49
Best Local Similarity: 42.33%      Mismatches:  133
Query Match:      35.69%      Indels:       36
DB:                9          Gaps:         11

US-10-037-417-46 (1-357) x US-09-880-107-2214 (1-1834)
QY      1 MetAlAGlnLysGlyValLeuGlyProGlyGlnLeuGlyAlaValAlaAsnSerAspSer 20
Db      229 ATGGCCAGAGAGGGGCTCTGGGGCTGGGACACTGGGGCTGTGGCC-----276
QY      21 TyrSerLeuTyr--GlyLeuValProSerGlyPro-----AlaArgGlyPro 35
Db      277 ATTCTGCTCTATCTTGATTAATCTCCGGTGGGACAGAGCGGAGGCGAGAGCTCCC 336
QY      36 ProTyrCysGlyYArgProGluProSerAlaArgIleValGlyIleSerAsnAlaGlnPro 55
Db      337 -----TGGGGT---GTGGCCCCCAAGACAGCATACAGGTGGCAGCATGAGTCGCC 387
QY      56 GlyThrTyrProTyrGlnValSerLeuHisHisGlyGlyGlyIleCysGlyGlySer 75
Db      388 GGTCAATGGGCGCTGGCAGGTCAAGCATCACTATGAAGGCGCTCATGTGTGTGGCTCT 447
QY      76 LeuIleAlaProSerTyrValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeu 95
Db      448 CTGTGTCTTGAAGAGTGGGTGTCTCATGCTGCTCACTCTTCCCGAGGACCAACAAG 507
QY      96 GluProAlaAlaGlnTyrSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAsp 115
Db      508 GAA-----GCTATGAGGTCAAGCTGGGGCCCAAGCATGAACTCTTCTCCGAG 558
QY      116 GlyAlaHisThrArgAlaValAlaAlaIleValValProAlaAsnTyrSerGlnValGlu 135
Db      559 GAGCCCAAGGTCAAGACCTTGAAGACATCATCCCCCACTTCCGAGGAGGCG 618
QY      136 LeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaVal 155
Db      619 TCCCAAGGCGACATGCACTCTCACTCAAGACCACTCACTTCCCGCTACATC 678
QY      156 TyrProValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysTyrPala 175
Db      679 CGGCGCATCTGCTCTCCCTGAGCAAGAGCGCTCTTCCCAAGCGCTCCCACTGCACTGTC 738
QY      176 ThrGlyTyrGlyAspValGlnGluAlaAspProLeuProLeuProTyrValLeuGlnGlu 195
Db      739 ACTGGCTGGGGGTGATGTGGCCCCCTCAGTAGGCTCTTGAAGCCCAAGCACTGGACGA 798
QY      196 ValGlnLeuArgLeuLeuGlyGlnValAlaThrCysGlnCysLeuTyrSerGlnProGlyPro 215
Db      799 CTGAGAGTGGCTGTGATCACTGTGAAGCGTGAACCTGTGAACAATCGAGCGCAAG 858
QY      216 PheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyIleTyrProGlnGlyArg 235
Db      859 CTCGAAGAGCGCGACTTTGTCCCAAGAGGAAATGTGTGTCTGTGGCTATGTGGAGGGGCG 918
QY      236 ArgAspThrCysGlnGlnYAspSerGlyGlyIleProLeuValCysGlnGlnGlyIleYArgTyr 255
Db      919 AAGGAGCGCTGCGCAGGGTGACTCTGGGGGCGCCACTCTCCCTGTGAGGGGTCTCTGG 978
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QY      256 PheGlnAlaGlyIleThrSerPheGlyPheGlyCysGlyYArgArgAsnArgProGlyVal 275
Db      979 TACCTGACCGGCACTTTGTGAGTGGAGATGCTGTGGGGCCCGCAAGCGCTGTGGTGTG 1038
QY      276 PheThrAlaValAlaThrTyrGlnAlaTyrIleArgGlnGlnValMetGlySerGluPro 295
Db      1039 TACACTGTGGCCCTCCAGCTATGCTCTGTGATGCCAAGCAAGTGT-----ACAGAACTC 1092
QY      296 GlyProAlaPheProThrGlnProGlnIleTyrGlnSerAsp-----CysLeuHis 312
Db      1093 CAGCTCTGTGTGGTGGCCCAACCCAGAGTCCAGCCCAAGCAAGCACTCTGTGGCAGC 1152
QY      313 GlnThrAlaPheLeuAspSer---AlaArgIleLeuLeuArgProLeuSerHisIleSer 331
Db      1153 CACCTGGCCCTTACAGCTCTGTGCCCAAGCGGCGTTGTGTAGAGCCCACTTTTCTGTGCT 1212
QY      332 ValGlyValSerThrGlyThrIleYSerLeuValLeuProTyrPheSer-----347
Db      1213 CTGGGCTGTGGCTGTGGCC-----CTCCTCTCCCAATGGCTCAGCGCAGCACTGAGCT 1263
QY      348 -----ProHisSerLeuLeuGlyLeuTyrGlyPhe 357
Db      1264 GGCCCTACTTCCAGATGAGATGATGATCACTCAAGAGACAGAGACCTGTGCTTTC 1317

RESULT 7
US-09-967-768A-141
; Sequence 141, Application US/09967768A
; Patent No. US20020150877A1
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 141
; LENGTH: 1834
; TYPE: DNA
; ORGANISM: Homo sapiens
; OTHER INFORMATION:
US-09-967-768A-141

Alignment Scores:
Pred. No.:      5,13e-58      Length:      1834
Score:          697.00      Matches:      160
Percent Similarity: 55.29%      Conservative: 49
Best Local Similarity: 42.33%      Mismatches:  133
Query Match:      35.69%      Indels:       36
DB:                9          Gaps:         11

US-10-037-417-46 (1-357) x US-09-967-768A-141 (1-1834)
QY      1 MetAlAGlnLysGlyValLeuGlyProGlyGlnLeuGlyAlaValAlaAsnSerAspSer 20
Db      229 ATGGCCAGAGAGGGGCTCTGGGGCTGGGACACTGGGGCTGTGGCC-----276
QY      21 TyrSerLeuTyr--GlyLeuValProSerGlyPro-----AlaArgGlyPro 35
Db      277 ATTCTGCTCTATCTTGATTAATCTCCGGTGGGACAGAGCGGAGGCGAGAGCTCCC 336
QY      36 ProTyrCysGlyYArgProGluProSerAlaArgIleValGlyIleSerAsnAlaGlnPro 55
Db      337 -----TGGGGT---GTGGCCCCCAAGACAGCATACAGGTGGCAGCATGAGTCGCC 387
QY      56 GlyThrTyrProTyrGlnValSerLeuHisHisGlyGlyGlyIleCysGlyGlySer 75
```



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Db      799 CTCGAGGCTCTGATCATGTCGTGAGACGTGTACTGCTGTACACATGACGAGCCAG 858
QY      216 PheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGlnGlyArg 235
Db      859 CCTGAGAGCCGCACTTGTGTCACAGAGGACATGTGGTGTGTGCTATGTGAGAGGGGAGC 918
QY      236 ArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGlnGlyValArgTyr 255
Db      919 AAGGACGCTGTGCAAGGTGACTCTGGGGGCCACACTCTGCTGCTGTGAGAGGTCTCTGG 978
QY      256 PheGlnAlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyVal 275
Db      979 TACCTGAGAGGGGATTTGTAGAGTGTGAGAGTGTGCTGTGGGGGCCGCAACAGGCTGTGTG 1038
QY      276 PheThrAlaValAlaThrTyrGlnAlaTrrPleArgGlnGlnValMetGlySerGlnPro 295
Db      1039 TACACTCTGGCCTCCAGCTATGCTCCGAGCTGAGCCAAAGAGGTG-----ACAAACTC 1092
QY      296 GlyProAlaPheProThrGlnProGlnThrGlnSerAsp-----CysLeuHis 312
Db      1093 CAGCTCTGCTGTGTGTCGCTGAGCCCAACAGAGTCCAGCCGACAGCAACCTGTGTGGAGC 1152
QY      313 GlnThrAlaPheLeuAspSer---AlaArgIleLeuLeuArgProLeuSerHisIleSer 331
Db      1153 CACCTGAGCTTCAGCTCTGAGCCCAAGGAGGCTGTGAGGCCCATCTTTCTGTGCT 1212
QY      332 ValGlyValSerThrGlyThrIleSerLeuValLeuProTrrPleuSer----- 347
Db      1213 CTGGGCTGTGGCTGTGGGC-----CTCTCTCTCCCACTGAGCTCAGCAGCACTGAGCT 1263
QY      348 -----ProHisSerLeuLeuGlyLeuTrrPoleYpHe 357
Db      1264 GGCCCTACTTCCAGATGATGATCATCACTAAGAGACAGAGCCTGTGCTTTC 1317

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RESULT 9
US-09-968-007A-379
US-09-968-007A, Application US/09968007A
Publication No. US20040115625A1
GENERAL INFORMATION:
APPLICANT: Bener, Reinhard
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signs
FILE REFERENCE: 689290-71
CURRENT APPLICATION NUMBER: US/09/968, 007A
CURRENT FILING DATE: 2001-10-02
PRIOR APPLICATION NUMBER: US/60/237,172
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US/60/237,173
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US/60/237,278
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US/60/237,294
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US/60/237,295
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US/60/237,316
PRIOR FILING DATE: 2000-10-02
NUMBER OF SEQ ID NOS: 1001
SOFTWARE: PatentIn version 3.0
SEQ ID NO 379
LENGTH: 1834
TYPE: DNA
ORGANISM: Homo sapiens
US-09-968-007A-379

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Alignment Scores:

Pred. No.:	5,13e-58	Length:	1834
Score:	697.00	Matches:	160
Percent Similarity:	55.29%	Conservative:	49
Best Local Similarity:	42.33%	Mismatches:	133
Query Match:	35.69%	Indels:	36
DB:	12	Gaps:	11

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US-10-037-417-46 (1-357) x US-09-968-007A-379 (1-1834)
QY      1 MetAlaGlnGlyValLeuGlyProGlyGlnLeuGlyAlaValAlaAsnSerAspSer 20
Db      229 ATGGCCAGAAAGGGGGTCTGGGCTTGGGAGCTGGGGGCTGTGGC----- 276
QY      21 TyrSerLeuTyr---GlyLeuValProSerGlyPro-----AlaArgGlyPro 35
Db      277 ATTGCTCTATCTTGTGATTAATCTCCGGTACGGGAGACAGAGCGGAAGGAGGAGAACTCC 336
QY      36 ProTyrCysGlyArgProGlnProSerAlaArgIleValGlyGlySerAsnAlaGlnPro 55
Db      337 -----TCCGGT---GTGGCCGCCCAAGCAGCATCAAGGTGGCAGAGTGCAGTCCG 387
QY      56 GlyThrTrrProTrrGlnValSerLeuHisIleGlyGlyValHisIleCysGlyGlySer 75
Db      388 GATCAGTGGCCCTGGCAGGTCAAGCATCACTCATGAGAGGCTCATTGTGTGTGGCTT 447
QY      76 LeuIleAlaProSerTrrValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeu 95
Db      448 CTCGTGTGAGACGTGGGTGTGCTGACGTGCTCACTGCTTCCGACGAGCAGCAGCAAG 507
QY      96 GluProAlaAlaGlnTrrSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAsp 115
Db      508 GAA-----GCCATAGAGGTCAAGCTGGGGGCCCAACAGCTAGACTCTACTCCAG 558
QY      116 GlyAlaHisThrArgAlaValAlaAlaIleValValProAlaAsnTrrSerGlnValGln 135
Db      559 GAGCCCAAGGTTCAGACACCTGTAAGAGACATCACTCCCAAGCCAGTACTCCTCCAGAG 618
QY      136 LeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaVal 155
Db      619 TCCCAAGGGGACATTCGACTCTCCCACTCAGCAACACCATCACTCTCCGCTACATTC 678
QY      156 TrrProValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysTrrPala 175
Db      679 CGGCCATCTGCTCTCCGAGCCCAAGCGCTCTTCCCAAGGCTCCACTGCTGCTGTC 738
QY      176 ThrGlyTrrGlyAspValGlnGlnAlaAspProLeuProLeuProTrrValLeuGlnGln 195
Db      739 ACTGCTGTGGGTCAAGTGTGCTGCCCCCTCAAGTGAACCTCTGAGCCCAAGCACTGAGCA 798
QY      196 ValGlnLeuArgLeuLeuGlyGlnAlaThrCysGlnCysLeuTrrSerGlnProGlyPro 215
Db      799 CTCGAGTGCCTCTGATCATGTCGTGAGACGTGTAACTGCTGTAAACAATCAGCCGCAAG 858
QY      216 PheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGlnGlyArg 235
Db      859 CCTGAGAGCCGCACTTGTGTCACAGAGGACATGTGGTGTGTGCTATGTGAGAGGGGAGC 918
QY      236 ArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGlnGlyValArgTyr 255
Db      919 AAGGACGCTGTGCAAGGTGACTCTGGGGGCCACACTCTGCTGCTGTGAGAGGTCTCTGG 978
QY      256 PheGlnAlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyVal 275
Db      979 TACCTGAGAGGGGATTTGTAGAGTGTGAGAGTGTGCTGTGGGGGCCGCAACAGGCTGTGTG 1038
QY      276 PheThrAlaValAlaThrTyrGlnAlaTrrPleArgGlnGlnValMetGlySerGlnPro 295
Db      1039 TACACTCTGGCCTCCAGCTATGCTCCGAGCTGAGCCAAAGAGGTG-----ACAAACTC 1092
QY      296 GlyProAlaPheProThrGlnProGlnThrGlnSerAsp-----CysLeuHis 312
Db      1093 CAGCTCTGCTGTGTGTCGCTGAGCCCAACAGAGTCCAGCCGACAGCAACCTGTGTGGAGC 1152
QY      313 GlnThrAlaPheLeuAspSer---AlaArgIleLeuLeuArgProLeuSerHisIleSer 331
Db      1153 CACCTGAGCTTCAGCTCTGAGCCCAAGGAGGCTGTGAGGCCCATCTTTCTGTGCT 1212
QY      332 ValGlyValSerThrGlyThrIleSerLeuValLeuProTrrPleuSer----- 347
Db      1213 CTGGGCTGTGGCTGTGGGC-----CTCTCTCTCCCACTGAGCTCAGCAGCACTGAGCT 1263

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Db	209	ATGGCCMAAGAAAGGGGCTCTGGGGCTGGGACGCTGGGGGCTGTGGCC-----	256
OY	21	TyrSerLeuYr--GlyLeuValProSerGlyPro--AlaArgly--ProProTyr	37
Db	257	ATTCTGCTCTATCTTGATTACTCCGGTCTGGGGGACAGGAGCGGAAGGGGACGAAGCTTC	316
OY	38	CysGlyValArgProGluProSerAlaArgIleValGlyIleSerAsnAlaGlnProGlyThr	57
Db	317	TGGCGT---GTGGCCCCCAAGCAGCAGTCACAGGTGGACAGAGTCAGTGGCGGTGAC	373
OY	58	TrpProTgPglValSerLeuHisIleGlyGlyHisIleCysGlyGlySerLeuIle	77
Db	374	TGGCCCTTGACAGTGCATCATCCTATAGAGCGTCCATGTGTGTGGTCTCTCTGCTG	433
OY	78	AlaProSerTrpValLeuSerAlaAlaHisCysPheMetTrpAsnGlyThrLeuGluPro	97
Db	434	TCTGAGCAGTGGGTGCTGTCAAGCTGTCACTGCTTCCCCACAGACACCAAGAA---	490
OY	98	AlaAlaGluTrpSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAspGlyAla	117
Db	491	-----GCCATATAGGTCAAGCTGGGGGCCACACGACTGACCTCTCATCCGAGGACGCC	544
OY	118	HisThrArgAlaValAlaIleValValProAlaAsnTrpSerGlnValGlnLeuGly	137
Db	545	AAAGTCAGACCCCTGAAGAGACATCAATCCCCACCCCAAGCTACCTCCAGAGAGGCTCCAG	604
OY	138	AlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaValTrpPro	157
Db	605	GCGGCATTTGCACCTCTCTCAACTCAGCAGACCCATCACTTCTCCCGTACATCCGGCC	664
OY	158	ValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAlaThrGly	177
Db	665	ATCTGCTCTCCCTGACGACCAAGCCCTCTCCCAAGCGCTCCACTGACATGCATCGGC	724
OY	178	TrpGlyAspValGlnGluAlaAspProLeuProLeuProTrpValLeuGlnGluValGlu	197
Db	725	TGGGGTCATGTGGCCCCCTCAGTCAGGCTCTGACGCCCAAGCACACTGACCAACTCGAG	784
OY	198	LeuArgLeuLeuGlyAlaThrCys-GlnCysLeuTrpSerGlnProGlyProPheAs	217
Db	785	GTGCTCTGATATAGTCGTGAGACGCGGTGAATGCTGCTGACAAATCAACAGCCAGCAAGCTCGA	844
OY	217	nLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTrpProGluGlyArgArgAs	237
Db	845	GGAGCCGACATTGTCCAAGAGGACATGATGTGTGCTGCTGATATGAGGGGGCGCAAGA	904
OY	237	pThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGluGlyValArgTrpPheG	257
Db	905	GCGCTGCAGAGGTGACTCTGGGGGGCCACTCTCCGCTGTGAGAGGGTCTCTGTATCCT	964
OY	257	nAlaGlyIleThrSerPheGlyPheGlyCysGlyValArgArgAsnArgProGlyValPheTh	277
Db	965	GACGGGCATTTGTGACGTGGAGATGATCCTGTGGGGCCCGCAACAGAGCTGTGTGTATAC	1024
OY	277	AlaValAlaThrTrpGlnAlaTrpIleArgGlnGluValMetGlySerGluProGlyP	297
Db	1025	TCTGGCCCTCAGCTATGCTCTCTGTGATCCAAAGCAAGTG-----ACAGAACTCAAC	1078
OY	297	AlaPheProThrGlnProGlnIleTrpGlnSerAsp-----CysLeuHisGlnTh	314
Db	1079	TGCTGTGTGTCGCCCAACCCAGAGATGCCACGCCCAGCAACCACTCTGTGGCAGCCACT	1138
OY	314	AlaPheLeuAspSer--AlaArgIleLeuLeuArgProLeuSerHisIleSerValG	333
Db	1139	GCCCTTCAGCTCTGCGCCAGCCCAAGGCTGTGTGAGGCCACATCTTTTCTGCTCTGG	1196
OY	333	ValSerThrGlyThrTrpSerLeuValLeuProTrpLeuSer-----	347
Db	1139	CTGTGCTCTGGGC-----CTCTCTCCCAATGGCTCAGCGAGCACTGAGCTGGCC	1249
OY	348	-----ProHisSerLeuLeuGlyLeuTrpGlyPhe	357

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Db          1250 TACTTCCAGGATGATGCATCACTCAAGACACAGAGGCTTGCTCTTC 1298

RESULT 13
US-10-042-865-29
; Sequence 29, Application US/10042865
; Publication No. US20040029216A1
; GENERAL INFORMATION:
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Li, Li
; APPLICANT: Zernhusen, Bryan D
; APPLICANT: Casman, Stacie J
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zhong, Mei
; APPLICANT: Gangoli, Esha A
; APPLICANT: Burgess, Catherine E
; APPLICANT: Patturajan, Meera
; APPLICANT: Vernet, Corine A.M
; APPLICANT: Taylor, Sarah
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Miller, Charles E
; APPLICANT: Guo, Xiaojia
; APPLICANT: Boldog, Ferenc L
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Ellenman, Karen
; APPLICANT: Macdougall, John
; APPLICANT: Malysankar, Uriel M
; APPLICANT: Miller, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glenda
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, David
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE OF INVENTION: Using the Same
; FILE REFERENCE: 21402-537
; CURRENT APPLICATION NUMBER: US/10/042,865
; CURRENT FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/260,417
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 60/260,831
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: 60/272,338
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/214,876
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/284,704
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 264
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 1726
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-042-865-29

Alignment Scores:
Pred. No.: 1,11e-53 Length: 1726
Score: 652.00 Matches: 152
Percent Similarity: 52.12% Conservative: 45
Best Local Similarity: 40.21% Mismatches: 109
Query Match: 33.38% Indels: 72
Dn: 13 Gaps: 12

US-10-037-417-46 (1-357) x US-10-042-865-29 (1-1726)
QY 1 MetalaglnlyscglYvalLeuglYpProglYglnLeuglYAlaValAlaasnsesRspser 20
Db 229 ATGAGCCAGAAAGGGGGCTCTCGGGGCTTGAGGCAAGCTGAGGGCTGTGGCC----- 27

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QY 21 TyrSerLeuTyr---GlyLeuValProSerGlyPro-----AlaArgGlyPro 35
Db 277 ATTTCGCTGATCTTATCTTGGATTAATCCGGTGGGACAGAGCCGAGAGGGGAGAGACTCCC 336
QY 36 ProTyrCysGlyArpProGluProSerAlaArgGlyLeuValGlyGlySerAlaGlnPro 55
Db 337 -----TGGGGT---GTGGCCCCCAAGACCGCATACAGAGTGGGACAGTGCAGTGGCC 387
QY 56 GlyThrTrpProTrpGlnValSerLeuHisHisGlyGlyGlyHisGlyGlySer 75
Db 388 GGTCAGTGGCCCTGGGAGGTCAGACATCACTTAAGAGGGGTCCATGTCATGTCGTGCTCT 447
QY 76 LeuLeuAlaProSerTrpValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeu 95
Db 448 CTCGTCTCTGAGACAGTGGGTGCTGTGATGCTGCTCATGCTTC----- 489
QY 96 GlnProAlaAlaGlnTrpSerValLeuGlyValHisSerGlnAspGlyProLeuAsp 115
Db 489 ----- 489
QY 116 GlyAlaHisThrArgAlaValAlaAlaIleValAlaProAlaAsnTyrSerGlnValGlu 135
Db 490 -----CCAGCGAGACACCAAGGGCTCC 513
QY 136 LeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaVal 155
Db 514 CAGGGC---GACATTGCATCTCCCAACTCAGAGACCCACAGCTACTCCGGCTATATC 570
QY 156 TrpProValCysLeuProAlaArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAla 175
Db 571 CGGCCCATCTGCTCCCTCCAGCAAGCGCTCCTCCCAAGGGCTCCACATGCATCTGTC 630
QY 176 ThrGlyTrpGlyAspValGlnGlnAlaAspProLeuProLeuProTrpValLeuGlnGlu 195
Db 631 ACTGGCTGGGGTCATGTGGCCCCCTCAGTGAAGCTCTTCAAGCCCAAGCCACTGACGAA 690
QY 196 ValGlnLeuArgLeuLeuGlyGlnAlaThrCysGlnCysLeuTyrSerGlnProGlyPro 215
Db 691 CTCGAGTGCCTTATCACTGAGTGTGAGAGCTGTGAATGCTGTGACACATCCAGCGCAAG 750
QY 216 PheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGluGlyArg 235
Db 751 CCTGAGAGACCCGACTTGTGTCCAAAGAGACATGTGTGTGTGTGTGTGTGTGTGTGTGTG 810
QY 236 ArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGlnGlyGlyArgTrp 255
Db 811 AAGGACGCTGCGCAGGGTACTGTGGGACCCAGCTCTCTGCTGTGAGAGGGTCTGTGG 870
QY 256 PheGlnAlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArpProGlyVal 275
Db 871 TACCTGACGGGCACTGTGAGCTGGGGAGATGCTGTGGGGCCCGCAACAGGCTGTGTGG 930
QY 276 PheThrAlaValAlaThrTyrGlnAlaTrpIleArgGlnGlnValMetGlySerGlnPro 295
Db 931 TACACTCTGGCTCCAGCTATGCTCTGTGATCCAAAGCAAGGTG-----ACAGAACTC 984
QY 296 GlyProAlaPheProThrGlnProGlnTyrSerGlnAsp-----CysLeuHis 312
Db 985 CAGCCCTCGTGTGGTCCCAAAACCCAGAGTCCCAAGCCGCAACCACTGTGTGGACCC 1044
QY 313 GlnThrAlaPheLeuAspSer---AlaArgIleLeuLeuArgProLeuSerHisIleSer 331
Db 1045 CAGCTGGCTTTCAGCTCTGCCAGCCAGCGGCTTCTGAGGCCATCTTTTCTGCTGCT 1104
QY 332 ValGlyValSerThrGlyThrIleTyrSerLeuValLeuProTrpLeuSer----- 347
Db 1105 CTGGGGCTGGCTCTGGGC-----CTCCCTCTCCCACTGAGCTCAGCAGACAGCTAGAGCT 1155
QY 348 -----ProHisSerLeuLeuGlyLeuTrpGlyPhe 357
Db 1156 GGCCCTACTTTCAGATGATGATCATCACTCAAGACAGAGGCTGTGTCTTC 1209
RESULT 14
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US-10-109-616-1
; Sequence 1, Application US/10109616
; Publication No. US20030167484A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Keith D.
; TITLE OF INVENTION: TRANSGENIC MICE CONTAINING CHANNEL
; TITLE OF INVENTION: ACTIVATING PROTEASE 1 (CAP1) GENE DISRUPTIONS
; FILE REFERENCE: R-490
; CURRENT APPLICATION NUMBER: US/10/109,616
; CURRENT FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: US 60/280,509
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: US 60/311,055
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1797
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-109-616-1

Alignment Scores:
Pred. No.: 2,77e-51 Length: 1797
Score: 627.50 Matches: 144
Percent Similarity: 55.17% Conservative: 48
Best Local Similarity: 41.38% Mismatches: 139
Query Match: 32.13% Indels: 17
DB: Gaps: 9

US-10-037-417-46 (1-357) x US-10-109-616-1 (1-1797)
QY 1 MetAlaGlnIleGlyValLeuGlyProGlyGlnLeuGlyAlaValAlaAsnSerAspSer 20
Db 146 ATGGGCCCAAGAGGTGGGCTGGACTTGGAGCTGGAGCTGGAACTGTGTGACC-----ATT 196
QY 21 TyrSerLeuTyrGlyLeuValProSerGlyY---ProAlaArgGlyY---ProProTyrCys 38
Db 197 CTCGCTCTTCTCGGATGTGCTCCAGTGGGAATCCAGCTGAGAGGACTGAAGCTCTCTGT 256
QY 39 GlyArgPro---GlnProSerAlaArgIleValGlyGlySerAsnAlaGlnProGlyThr 57
Db 257 GGTCGCGTATCATCAACCA-----CGCATCACCGGTGGTGGAGTGGCAAGCCGGGTGAG 310
QY 58 TrpProTrpGlnValSerLeuHisHisGlyGlyGlyHisGlyGlySerLeuIle 77
Db 311 TGGCCCTGGCAGGTGACATCACTACATGAGTGCATCTGTTGTGGCGGGTGGCTGTGG 370
QY 78 AlaProSerTrpValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeuGlnPro 97
Db 371 TCAAAATTAATGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 427
QY 98 AlaAlaGlnTrpSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAspGlyAla 117
Db 428 -----GCCTATGAGGTGAGCTGGGGGGCCACAGCTAGACTCTTACAGCATATGACACT 481
QY 118 HisThrArgAlaValAlaAlaIleValValProAlaAsnTyrSerGlnValGlnLeuGly 137
Db 482 GTGTGTCCACAGTGTGCTAGATCATACCACTCAAGTATACGAGAAAGAGGGCTCCGAG 541
QY 138 AlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaValTrpPro 157
Db 542 GGGGACATGGGGTTCATCGCTCAGCATCGCTGACAGTCTGTCCCGGTATCATACAGACC 601
QY 158 ValCysLeuProAlaArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAlaThrGly 177
Db 602 ATTGTGCTCTCCGACAGCCATGCTCTTCCCAAGCGGCTTCACTGTATCTGTACGGGGA 661
QY 178 TrpGlyAspValGlnGlnAlaAspProLeuProLeuProTrpValLeuGlnGlnValGlu 197
Db 662 TGGGGTCATGTGGCTCTTCACTGAGTCACTCCAGACCCCTTAGGCTCTTGGAGAGCTCGAG 721
QY 198 LeuArgLeuLeuGlyGlnAlaThrCysGlnCysLeuTyrSerGlnProGlyProPheAsn 217
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QY 174 TrpAlaThrGlyTyrPgiYAspValGlnGluAlaAspProLeuProLeuProTyrValLeu 193
Db 712 ACTGTCACTGGCTGGGTCAATGTGGCCCCCTCACTGAGCCTCCTGACGCCCAAGCCACTG 771
QY 194 GlnGluValGlnLeuArgLeuLeuGlyGluAlaThrCysGlnCysLeuTyrSerGlnPro 213
Db 772 CAGCAACTCGAGGTGCTCTGATCAATCGTGAACGTGTAACTGCTGTACAACATCGAC 831
QY 214 GlyProPheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGlu 233
Db 832 GCCAAGCCTGAGAGGCCGCACTTGTCCAAAGAGACATGGTGTGTCTGGCTATGTGAG 891
QY 234 GlyArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGlnGlyGly 253
Db 892 GGGGGCAAGGACCGCTGCCAGGGTGAATCTGGGGGCCCACTCTCTGCTGCTGAGAGGT 951
QY 254 ArgTyrPheGlnAlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArgPro 273
Db 952 CTCTGGTACCTGACGGGGCATTTGTAGCTGGGAGATGCTGTGGGGGCCGCCAACAAGGCT 1011
QY 274 GlyValPheThrAlaValAlaThrTyrGluAlaTyrPheArgGlnGlnValMetGlySer 293
Db 1012 GGTGTGTACACTGTGGCTCTCAAGCTATGCTCTCTGATCCAAAGCAAGAGACTCTGCGGGA 1071
QY 294 GlnProGlyProAlaPheProThrGlnPro 303
Db 1072 GGCTGGGGCCCCCACTTGAATCTTTGAGCCC 1101

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Search completed: August 4, 2004, 15:34:11
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